SPECIAL NOTICE

MT PRA-GLAC 10(28),
ST. MARY VISITOR CENTER REHABILITATION

THIS IS A TASK ORDER REQUEST FOR PROPOSAL SOLELY FOR THE FOLLOWING CONTRACT AND CONTRACTOR:

Contract Number	Contractor Name	Contractor Number
DTFH70-07-D-00009	HK Contractors Inc	(208) 523-6600

THIS PROJECT IS BEING ADVERTISED ON THE FEDERAL BUSINESS OPPORTUNITIES WEBSITE TO ANNOUNCE THE UPCOMING PROJECT AND ASSIST POTENTIAL SUBCONTRACTORS BY PUBLICIZING OPPORTUNITIES.

A PROPOSAL WILL **ONLY** BE ACCEPTED FROM THE ABOVE PRIME CONTRACTOR.

Additional information may be found on our web pages:

Construction Projects: http://www.wfl.fhwa.dot.gov/edi/construction.htm
Description: This web page contains links to access upcoming (synopsized) projects, advertised (solicitation) projects, bids and proposals received, awarded projects, awarded IDIQ contracts, bid tabs, and bid history.

Advertised Projects: http://www.wfl.fhwa.dot.gov/edi/current.htm
Description: This web page contains projects that are out for bid with links to the Federal Business Opportunities project page, question submittals, and a link to the project Question and Answers.

Going to the Sun Road Rehabilitation IDIQ: http://www.wfl.fhwa.dot.gov/edi/idiq/gtsr.htm
Description: This web page contains the contractors information, a description of the contract and the projects that have been awarded under the contract.

Going to the Sun Road Rehabilitation IDIQ
Task Order Request For Proposal

Proposal Due Date: See page A-3, Block 13A.

Solicitation No. DTFH70-08-R-00001

MT PRA-GLAC 10(28)
St. Mary Visitor Center Rehabilitation

HK Contractors Inc
P.O. Box 51450
IDAHO FALLS, ID 83405-1450

QUICK INDEX

PROPOSAL REMINDERS

Electronic proposals will not be accepted. Submit printed copy of your proposal to the address listed on the enclosed SF 1442. Before submitting your proposal, please review the following:

- Have you rechecked your figures?
- Have you completed the schedule?
- Have you completed and signed the SF 1442, Solicitation, Offer & Award?
- Have you acknowledged all amendments?
- Have you completed the Task Order subcontracting plan?
- **Have you marked "Proposal Enclosed for Solicitation No. DTFH70-08-R-00001" in the lower left corner of the submittal envelope?**

Solicitation, Offer & Award, Bid Schedule, Contract Clauses,
Minimum Wage Schedule, Special Contract Requirements, and Plans

This solicitation cites

Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-03 – U.S. Customary Units

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
610 EAST FIFTH STREET
VANCOUVER, WA 98661-3801
Phone (360) 619-7520 -- FAX (360) 619-7932

Web site: www.wfl.fhwa.dot.gov/edi/
e-mail: contracts@mail.wfl.fhwa.dot.gov

WORLD HERITAGE SITE

PROJECT NAME	**MT PRA-GLAC 10(28)** **St. Mary Visitor Center Rehabilitation**
PROJECT TERMINI	**N/A**
PROJECT LENGTH	**0.197 MI**
NATIONAL PARK	**Glacier National Park**
COUNTY	**Flathead County**
STATE	**Montana**
FIXED COMPLETION DATE	**See FAR Clause 52.211-10** (clauses begin on page C-1)

TABLE OF CONTENTS

03USC09/21/07

NOTICE TO OFFEROR

I. Project Location.

The project work is located 0.5 miles north of St. Mary, Montana in Glacier County.

Signs have not been erected to identify the project limits. No Government personnel will be available for show-me tours.

II. Pre-proposal Information.

This solicitation includes electronic plan sheets. Plan sheets can be found at http://www.wfl.fhwa.dot.gov/edi/plans/glac1028/ and viewed by individual sections, downloaded by individual sections, or the entire plan set downloaded in a zip file. A paper copy of the plan sheets is available by submitting the form included in this solicitation.

Requests for technical information (Plan and Division 100 – 700 Specification questions only) about this project will only be accepted in writing (see Block 9 on page A-5).

REPS & CERTS**.** Submit or update Representations and Certifications online at http://orca.bpn.gov before bid submittal. For more details go to FAR Provision *52.204-8 Annual Representations and Certifications* (see page B-2). If you have previously registered on-line and the NAICS code for this solicitation is different than the code listed in your online file, please note the amended changes on the lines provided in FAR 52.204-8.

Particular attention should be paid to Standard Form l442, Solicitation, Offer and Award, to assure that Blocks 14, 15, 16, 19, 20A, and 20C are completed correctly. Sign Block 20B according to the instructions in Subsection 102.02. You must submit a completed 'Authority to Sign' document (see Offeror's packet). You must also complete the representations and certifications contained in the Contract Provisions beginning on page B-1. Failure to furnish or complete any of the above may result in your bid being considered nonresponsive and being rejected.

Facsimile bids are not authorized for this solicitation.

Notice of CCR Registration**.** You must register in the Central Contract Registration (CCR) prior to award of this contact. Failure to register prior to contract award will require award to be offered to the next successful registered Offeror. See FAR Subpart 4.1103(c). Register online at www.ccr.gov or call toll free: 888.227.2423.

III. Post Award Information.

Insurance requirements are set forth in Subsection 107.05.

Contractor Performance Evaluations. FHWA is now posting evaluations in the National Institutes of Health's Contractor Performance System (CPS) for completed projects. Register at https://cps.nih.gov/infopage.asp (Click on "CPS Info" tab, then click on "Contractor Information" button) to view and comment on evaluations. System registration is only required once. Review the evaluation and submit comments within 30 days of notification. Reviewing the evaluation and submitting comments is limited to one entry. If unable to register, call 360.619.7520 for assistance or a copy of the evaluation. You can also access the Contractor User Manual from this web link.

Some known potential material sources are listed below, The government makes no representation as to the quality or quantity of material, or rights to the availability of material from these sources. These sources are considered contractor-located in accordance with Section 105 and are subject to annual weed-free inspections by the Government. Coordinate with the CO at the start of each construction season to determine if the listed sites meet weed-free requirements. Mitigation measures may be required as a condition for use of some of the sources listed below.

Topsoil can be obtained from:

Black Gold Topsoil
2958 Hwy 2 East
Kalispell, MT 59901
Phone No.: 406-257-7782

Tom Gorton, Creston Top Soil
578 Creston Road
Kalispell, MT 59901
Phone No.: 406-756-8854

Material for use in roadway aggregate under Sections 301 and 308 may be obtained from the following sites:

Goose Bay Equipment, Inc.
Goose Pit
325 Jellison Road & Highway 2
Kalispell, MT 59901
Phone No.: 406-257-8240

JTL Group
Hodson Pit & Main Plant
Highway 2 E
Kalispell, MT 59901
Phone No.: 406-752-2755

LHC, Inc.
1174 Stillwater Road
Kalispell, MT 59901
Phone No.: 406-756-3467

Weaver Gravel
1190 Elk Park Road
Columbia Falls, MT 59912
Phone No.: 406-755-0212

Highline Redi-Mix – Whitford Pit, Browning
PO Box 370
Shelby, MT 59474
Phone No.: 407-434-5391

Schellinger Construction
Carson Pit (Whitefish Stage Road)
and Farm to Market Road Source
Phone No.: 406-892-2188

Weaver Gravel
1190 Elk Park Road
Columbia Falls, MT 59912
Phone No.: 406-755-0212

Whiterock Gravel
304 Jellison Road
Kalispell, MT 59901
Phone No.: 406-756-8560

IV. Specifications and Permits.

This solicitation and subsequent contract are governed by the Federal Acquisition Regulation (FAR), agency supplemental regulations, and the Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-03 U.S. Customary Units. Obtain paper copies of the FP-03 by calling 360.619.7520, e-mailing at plans_spec@fhwa.dot.gov, or writing Federal Highway Administration, 610 East Fifth Street, Vancouver, WA 98661, Attention: Specification Engineer. An electronic version may be found at http://www.wfl.fha.dot.gov/design/specs/fp03.htm.

Geotechnical design data applicable to this project is listed in FAR Clause 52.236-4, Physical Data. See Continuation of SF 1442, Block 9, for information to obtain this data.

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Bid Schedule

Project: MT PRA-GLAC 10(28)
ST. MARY VISITOR CENTER REHABILITATION

Offeror please note: Before preparing the bid, carefully read the Solicitation Provisions.

Insert a unit bid price, in figures, for each pay item for which a quantity appears in the bid schedule. Multiply the unit price by the quantity for each pay item and show the amount bid. Should any mathematical check made by the Government show a mistake in the amount bid, the Amount Bid for the item will be based on the Unit Bid Price.

When "LPSM" (Lump Sum) appears as a unit bid price, insert an amount for each lump sum pay item.

When a sum based on a fixed rate appears for any pay item in the amount bid column, include the Government inserted amount bid for the item in the total bid amount.

Total the amounts bid for all pay items and insert the total bid amount.

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15101-0000	MOBILIZATION		
	ALL	Lump Sum	$_____
15201-0000	CONSTRUCTION SURVEY AND STAKING		
	ALL	Lump Sum	$_____
15217-1000	SURVEY AND STAKING, MISCELLANEOUS		
	50 HOUR	$_____	$_____
15301-0000	CONTRACTOR QUALITY CONTROL		
	ALL	Lump Sum	$_____
15401-0000	CONTRACTOR TESTING		
	ALL	Lump Sum	$_____
15501-0000	CONSTRUCTION SCHEDULE		
	ALL	Lump Sum	$_____
15705-1500	SOIL EROSION CONTROL, SEDIMENT WATTLE		
	1,700.0 LNFT	$_____	$_____

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15706-1600	SOIL EROSION CONTROL, STABILIZED CONSTRUCTION ENTRANCE		
	2 EACH	$_____	$_____
20103-0000	CLEARING AND GRUBBING		
	10,500 SQYD	$_____	$_____
20220-1000	REMOVAL, INDIVIDUAL TREE		
	1 EACH	$_____	$_____
20301-2400	REMOVAL OF SIGN		
	9 EACH	$_____	$_____
20301-3400	REMOVAL OF WHEELSTOP		
	4 EACH	$_____	$_____
20302-0200	REMOVAL OF CURB		
	65.0 LNFT	$_____	$_____
20302-0300	REMOVAL OF CURB AND GUTTER, CONCRETE		
	2,500.0 LNFT	$_____	$_____
20303-2300	REMOVAL OF PAVEMENT, CONCRETE		
	50 SQYD	$_____	$_____
20303-3000	REMOVAL OF SIDEWALK, ASPHALT		
	100 SQYD	$_____	$_____
20303-3200	REMOVAL OF SIDEWALK, CONCRETE		
	950 SQYD	$_____	$_____
20315-0000	SAWCUTTING PAVEMENT		
	650.0 LNFT	$_____	$_____
20401-0000	ROADWAY EXCAVATION		
	5,500.0 CUYD	$_____	$_____

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
20401-0000	ROADWAY EXCAVATION (REMOVE & STOCKPILE EXISTING GRAVEL)		
	130.0 CUYD	$_____	$_____
20425-1000	DITCH, EXCAVATION		
	850.0 LNFT	$_____	$_____
20701-0800	EARTHWORK GEOTEXTILE, TYPE II-B (NON-WOVEN)		
	11,000 SQYD	$_____	$_____
25101-4000	PLACED RIPRAP, CLASS 4		
	75.0 CUYD	$_____	$_____
30302-1000	DITCH RECONDITIONING		
	30.0 LNFT	$_____	$_____
30503-0000	AGGREGATE-TOPSOIL COURSE (SHOULDER)		
	40.0 CUYD	$_____	$_____
31201-0000	AGGREGATE STORAGE BED		
	6,400.00 TON	$_____	$_____
31202-0000	CHOKER AGGREGATE		
	1,300.00 TON	$_____	$_____
43101-0000	PERMEABLE HOT ASPHALT CONCRETE PAVEMENT		
	2,800.00 TON	$_____	$_____
50101-0900	REINFORCED RIGID PAVEMENT, 8-INCH DEPTH, TYPE C SMOOTHNESS (DRIVE PAD, CONCRETE)		
	250 SQYD	$_____	$_____
60201-0600	18-INCH PIPE CULVERT		
	130.0 LNFT	$_____	$_____
60210-0600	END SECTION FOR 18-INCH PIPE CULVERT		
	2 EACH	$_____	$_____

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
60901-0000	CURB, CONCRETE (RAISED)		
	1,420.0		
	LNFT	$_____	$_____
60901-0000	CURB, CONCRETE (RIBBON)		
	920.0		
	LNFT	$_____	$_____
60902-0600	CURB AND GUTTER, CONCRETE, 8-INCH DEPTH		
	230.0		
	LNFT	$_____	$_____
60905-1000	GUTTER, CONCRETE (TYPE I - 4' WIDTH)		
	230.0		
	LNFT	$_____	$_____
60905-1000	GUTTER, CONCRETE (TYPE II - 10' WIDTH)		
	30.0		
	LNFT	$_____	$_____
60915-1000	WHEELSTOP, CONCRETE		
	26		
	EACH	$_____	$_____
61109-3000	RELOCATE WATER FOUNTAIN		
	1		
	EACH	$_____	$_____
61501-0500	SIDEWALK, EXPOSED AGGREGATE CONCRETE (THICKENED EDGE)		
	1,200		
	SQYD	$_____	$_____
61509-0000	DETECTABLE WARNING PANELS		
	65.0		
	SQYD	$_____	$_____
61902-0000	GATE (AUTOMATIC)		
	2		
	EACH	$_____	$_____
62201-0200	DUMP TRUCK, 8 CUBIC YARD MINIMUM CAPACITY		
	40		
	HOUR	$_____	$_____
62201-0400	BACKHOE LOADER, 2 CUBIC F00T MINIMUM RATED CAPACITY BUCKET, 12-INCH WIDTH		
	80		
	HOUR	$_____	$_____

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
62201-2050	ROLLER		
	40		
	HOUR	$_____	$_____
62201-2850	MOTOR GRADER, 12 FOOT MINIMUM BLADE		
	120		
	HOUR	$_____	$_____
62201-3000	HYDRAULIC EXCAVATOR		
	40		
	HOUR	$_____	$_____
62201-3750	CHAIN SAW		
	8		
	HOUR	$_____	$_____
62301-0000	GENERAL LABOR		
	160		
	HOUR	$_____	$_____
62401-0300	FURNISHING AND PLACING TOPSOIL, 4-INCH DEPTH		
	6,800		
	SQYD	$_____	$_____
63302-0000	SIGN SYSTEM		
	80.0		
	SQFT	$_____	$_____
63318-1000	SNOWPOLE HOLDER		
	90		
	EACH	$_____	$_____
63401-0300	PAVEMENT MARKINGS, TYPE B, SOLID		
	3,650		
	LNFT	$_____	$_____
63405-0700	PAVEMENT MARKINGS, TYPE B, "STOP" WORD MESSAGE		
	2		
	EACH	$_____	$_____
63405-0850	PAVEMENT MARKINGS, TYPE B, ACCESSIBILITY SYMBOL		
	5		
	EACH	$_____	$_____
63502-0600	TEMPORARY TRAFFIC CONTROL, BARRICADE TYPE 3		
	4		
	EACH	$_____	$_____

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
63502-1300	TEMPORARY TRAFFIC CONTROL, DRUM		
	40		
	EACH	$_____	$_____
63502-1500	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE A		
	6		
	EACH	$_____	$_____
63504-1000	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN		
	190.0		
	SQFT	$_____	$_____
63602-6000	SYSTEM INSTALLATION, TRAFFIC DETECTOR SYSTEM		
	1		
	EACH	$_____	$_____
63610-1000	CONDUIT, 1 1/2-INCH, PVC		
	625.0		
	LNFT	$_____	$_____
63611-0600	WIRE, ELECTRICAL CONDUCTORS, 4 AWG		
	1,850.0		
	LNFT	$_____	$_____
63622-0000	UTILITY TRENCH		
	735.0		
	LNFT	$_____	$_____
64603-1200	FIXTURE, WAYSIDE EXHIBIT (GOVERNMENT FURNISHED)		
	8		
	EACH	$_____	$_____
64603-1200	FIXTURE, WAYSIDE EXHIBIT (REMOVE & RESET EXISTING TRANSIT SIGN)		
	3		
	EACH	$_____	$_____
64605-1000	FIXTURE, KIOSK (BUS SHELTER)		
	ALL	Lump Sum	$_____

TOTAL $_____

Submitted by: _____

Name of Offeror

Federal Acquisition Regulation
Solicitation Provisions

Representations, Certifications and Other Statements of Offeror

Note: The provisions included in the basic IDIQ apply. The following provisions have been changed or require fill-in for this specific project.

The Offeror Makes the Following Representations and Certifications as a Part of its Offer.

52.222-23 Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity for Construction (Feb 1999)

(a) The offeror's attention is called to the Equal Opportunity clause and the Affirmative Action Compliance Requirements for Construction clause of this solicitation.

(b) The goals for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Goals for Minority Participation for Each Trade: 2.7%
Goals for Female Participation for Each Trade: 6.9%

These goals are applicable to all the Contractor's construction work performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, the Contractor shall apply the goals established for the geographical area where the work is actually performed. Goals are published periodically in the *Federal Register* in notice form, and these notices may be obtained from any Office of Federal Contract Compliance Programs office.

(c) The Contractor's compliance with Executive Order 11246, as amended, and the regulations in 41 CFR 60-4 shall be based on (1) its implementation of the Equal Opportunity clause, (2) specific affirmative action obligations required by the clause entitled "Affirmative Action Compliance Requirements for Construction," and (3) its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade. The Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor, or from project to project, for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, Executive Order 11246, as amended, and the regulations in 41 CFR 60-4. Compliance with the goals will be measured against the total work hours performed.

(d) The Contractor shall provide written notification to the Deputy Assistant Secretary for Federal Contract Compliance, U.S. Department of Labor, within 10 working days following award of any construction subcontract in excess of $10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the—

(1) Name, address, and telephone number of the subcontractor;
(2) Employer's identification number of the subcontractor;
(3) Estimated dollar amount of the subcontract;
(4) Estimated starting and completion dates of the subcontract; and
(5) Geographical area in which the subcontract is to be performed.

(e) As used in this Notice, and in any contract resulting from this solicitation, the "covered area" is **Flathead County, Montana**

USE OF RECOVERED MATERIALS ON FEDERAL LANDS HIGHWAY PROJECTS

Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA) of 1976, as amended (42 U.S.C. 6901 *et seq.)*, requires Federal, State, and local procuring agencies using appropriated Federal funds to purchase items composed of the highest percentage of recovered materials practical. Use of recovered materials is strongly encouraged on Federal Lands Highway Projects. Highway construction items covered by the Environmental Protection Agency's *Comprehensive Guidelines for Procurement of Products Containing Recovered Materials* include fly ash, ground granulated blast furnace slag, traffic barricades, traffic cones, hydraulic mulch and compost for mulch.

Use of **fly ash** and ground **granulated blast furnace slag** and construction materials containing fly ash and ground granulated blast furnace slag on Federal Lands Highway Projects:

- It is the policy of the United States Government that fly ash and ground granulated blast furnace slag and materials containing fly ash and ground granulated blast furnace slag shall have maximum practicable opportunity for incorporation into its construction projects.

- The Contractor agrees to investigate the use of fly ash and ground granulated blast furnace slag and materials containing fly ash and ground granulated blast furnace slag to the fullest extent consistent with the efficient performance of this contract. Both the contractor and the subcontractors are urged to seek out suppliers of fly ash and ground granulated blast furnace slag, cement and concrete containing fly ash and ground granulated blast furnace slag and to solicit bids for these materials.

- Names of firms that supply fly ash and ground granulated blast furnace slag and materials containing fly ash and ground granulated blast furnace slag are available from the American Coal Ash Association and the National Slag Association.

FEDERAL ACQUISITION REGULATION
SOLICITATION PROVISIONS
INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFEROR

52.215-20 Requirements for Cost or Pricing Data or Information Other than Cost or Pricing Data (Oct 1997)

(a) Exceptions from cost or pricing data.

(1) In lieu of submitting cost or pricing data, offerors may submit a written request for exception by submitting the information described in the following paragraphs. The Contracting Officer may require additional supporting information, but only to the extent necessary to determine whether an exception should be granted, and whether the price is fair and reasonable.

(i) *Identification of the law or regulation establishing the price offered*. If the price is controlled under law by periodic rulings, reviews, or similar actions of a governmental body, attach a copy of the controlling document, unless it was previously submitted to the contracting office.

(ii) *Commercial item exception*. For a commercial item exception, the offeror shall submit, at a minimum, information on prices at which the same item or similar items have previously been sold in the commercial market that is adequate for evaluating the reasonableness of the price for this acquisition. Such information may include—

(A) For catalog items, a copy of or identification of the catalog and its date, or the appropriate pages for the offered items, or a statement that the catalog is on file in the buying office to which the proposal is being submitted. Provide a copy or describe current discount policies and price lists (published or unpublished), *e.g.*, wholesale, original equipment manufacturer, or reseller. Also explain the basis of each offered price and its relationship to the established catalog price, including how the proposed price relates to the price of recent sales in quantities similar to the proposed quantities;

(B) For market-priced items, the source and date or period of the market quotation or other basis for market price, the base amount, and applicable discounts. In addition, describe the nature of the market;

(C) For items included on an active Federal Supply Service Multiple Award Schedule contract, proof that an exception has been granted for the schedule item.

(2) The offeror grants the Contracting Officer or an authorized representative the right to examine, at any time before award, books, records, documents, or other directly pertinent records to verify any request for an exception under this provision, and the reasonableness of price. For items priced using catalog or market prices, or law or regulation, access does not extend to cost or profit information or other data relevant solely to the offeror's determination of the prices to be offered in the catalog or marketplace.

(b) *Requirements for cost or pricing data*. If the offeror is not granted an exception from the requirement to submit cost or pricing data, the following applies:

(1) The offeror shall prepare and submit cost or pricing data and supporting attachments in accordance with Table 15-2 of FAR 15.408.

(2) As soon as practicable after agreement on price, but before contract award (except for unpriced actions such as letter contracts), the offeror shall submit a Certificate of Current Cost or Pricing Data, as prescribed by FAR 15.406-2.

52.216-1 Type of Contract (Apr 1984)

The Government contemplates award of a **Firm Fixed-Price Task Order** contract resulting from this solicitation.

52.236-27 Site Visit (Construction) (Feb 1995)

(a) The clauses at 52.236-2, Differing Site Conditions, and 52.236-3, Site Investigations and Conditions Affecting the Work, will be included in any contract awarded as a result of this solicitation. Accordingly, offerors or quoters are urged and expected to inspect the site where the work will be performed.

(b) Site visits may be arranged during normal duty hours by contacting:

Prospective Offerors were encouraged by letter of October 4, 2007 to inspect the site prior to onset of adverse weather conditions. Currently, the site may not be accessible. There will be no government arranged site visits.

Federal Acquisition Regulation
Contract Clauses

Note: The clauses included in the basic IDIQ apply. The following clauses have been changed or require fill-in for this specific project.

52.204-1 Approval of Contract (Dec 1989)

This contract is subject to the written approval of the Western Federal Lands' Division Engineer (or delegate) or the Second Level Contracting Officer, and shall not be binding until so approved.

52.211-10 Commencement, Prosecution, and Completion of Work (Apr 1984) Alternate I (Apr 1984)

The Contractor shall be required to (a) commence work under this contract within 10 calendar days after the date the Contractor receives the notice to proceed, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than **June 13, 2008** subject to such extensions as may be authorized. The time stated for completion shall include final cleanup of the premises.

The completion date is based on the assumption that the successful offeror will receive the notice to proceed **by April 16, 2008**. The completion date will be extended by the number of calendar days after the above date that the contractor receives the notice to proceed, except to the extent that the delay in issuance of the notice to proceed results from the failure of the contractor to execute the contract and give the required performance and payment bonds within the time specified in the offer.

52.211-12 Liquidated Damages—Construction (Sep 2000)

(a) If the Contractor fails to complete the work within the time specified in the contract, the Contractor shall pay liquidated damages to the Government in the amount of: See Special Contract Requirements, Subsection 108.04.

(b) If the Government terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Termination clause.

52.223-3 Hazardous Material Identification and Material Safety Data (Jan 1997) Alternate I (July 1995).

(a) "Hazardous material," as used in this clause, includes any material defined as hazardous under the latest version of Federal Standard No. 313 (including revisions adopted during the term of the contract).

(b) The offeror must list any hazardous material, as defined in paragraph (a) of this clause, to be delivered under this contract. The hazardous material shall be properly identified and include any applicable identification number, such as National Stock Number or Special Item Number. This information shall also be included on the Material Safety Data Sheet submitted under this contract.

Material (if none, insert "None")	Identification No.
_____	_____
_____	_____

(c) This list must be updated during performance of the contract whenever the Contractor determines that any other material to be delivered under this contract is hazardous.

(d) The apparently successful offeror agrees to submit, for each item as required prior to award, a Material Safety Data Sheet, meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous material identified in paragraph (b) of this clause. Data shall be submitted in accordance with Federal Standard No. 313, whether or not the apparently successful offeror is the actual manufacturer of these items. Failure to submit the Material Safety Data Sheet prior to award may result in the apparently successful offeror being considered nonresponsible and ineligible for award.

(e) If, after award, there is a change in the composition of the item(s) or a revision to Federal Standard No. 313, which renders incomplete or inaccurate the data submitted under paragraph (d) of this clause, the Contractor shall promptly notify the Contracting Officer and resubmit the data.

(f) Neither the requirements of this clause nor any act or failure to act by the Government shall relieve the Contractor of any responsibility or liability for the safety of Government, Contractor, or subcontractor personnel or property.

(g) Nothing contained in this clause shall relieve the Contractor from complying with applicable Federal, State, and local laws, codes, ordinances, and regulations (including the obtaining of licenses and permits) in connection with hazardous material.

(h) The Government’s rights in data furnished under this contract with respect to hazardous material are as follows:

(1) To use, duplicate and disclose any data to which this clause is applicable. The purposes of this right are to—

(i) Apprise personnel of the hazards to which they may be exposed in using, handling, packaging, transporting, or disposing of hazardous materials;

(ii) Obtain medical treatment for those affected by the material; and

(iii) Have others use, duplicate, and disclose the data for the Government for these purposes.

(2) To use, duplicate, and disclose data furnished under this clause, in accordance with paragraph (h)(1) of this clause, in precedence over any other clause of this contract providing for rights in data.

(3) The Government is not precluded from using similar or identical data acquired from other sources.

(i) Except as provided in paragraph (i)(2), the Contractor shall prepare and submit a sufficient number of Material Safety Data Sheets (MSDS's), meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous materials identified in paragraph (b) of this clause.

(1) For items shipped to consignees, the Contractor shall include a copy of the MSDS's with the packing list or other suitable shipping document which accompanies each shipment. Alternatively, the Contractor is permitted to transmit MSDS's to consignees in advance of receipt of shipments by consignees, if authorized in writing by the Contracting Officer.

(2) For items shipped to consignees identified by mailing address as agency depots, distribution centers or customer supply centers, the Contractor shall provide one copy of the MSDS's in or on each shipping container. If affixed to the outside of each container, the MSDS's must be placed in a weather resistant envelope.

52.228-1 Bid Guarantee (Sept 1996)

(a) Failure to furnish a bid guarantee in the proper form and amount, by the time set for opening of bids, may be cause for rejection of the bid.

(b) The bidder shall furnish a bid guarantee in the form of a firm commitment, *e.g.*, bid bond supported by good and sufficient surety or sureties acceptable to the Government, postal money order, certified check, cashier's check, irrevocable letter of credit, or, under Treasury Department regulations, certain bonds or notes of the United States. The Contracting Officer will return bid guarantees, other than bid bonds—

(1) To unsuccessful bidders as soon as practicable after the opening of bids; and

(2) To the successful bidder upon execution of contractual documents and bonds (including any necessary coinsurance or reinsurance agreements), as required by the bid as accepted.

(c) The amount of the bid guarantee shall be **20** percent of the bid price or $**3 million**, whichever is less.

(d) If the successful bidder, upon acceptance of its bid by the Government within the period specified for acceptance, fails to execute all contractual documents or furnish executed bond(s) within **10** days after receipt of the forms by the bidder, the Contracting Officer may terminate the contract for default.

(e) In the event the contract is terminated for default, the bidder is liable for any cost of acquiring the work that exceeds the amount of its bid, and the bid guarantee is available to offset the difference.

52.228-13 Alternative Payment Protections (July 2000)

(a) The Contractor shall submit one of the following payment protections:

Bid Bond_____

_____

(b) The amount of the payment protection shall be 100 percent of the contract price.

(c) The submission of the payment protection is required within **10** days of contract award.

(d) The payment protection shall provide protection for the full contract performance period plus a one-year period.

(e) Except for escrow agreements and payment bonds, which provide their own protection procedures, the Contracting Officer is authorized to access funds under the payment protection when it has been alleged in writing by a supplier of labor or material that a nonpayment has occurred, and to withhold such funds pending resolution by administrative or judicial proceedings or mutual agreement of the parties.

(f) When a tripartite escrow agreement is used, the Contractor shall utilize only suppliers of labor and material that signed the escrow agreement.

52.236-1 Performance of Work by the Contractor (Apr 1984)

The Contractor shall perform on the site, and with its own organization, work equivalent to at least **fifteen (15)** percent of the total amount of work to be performed under the contract. This percentage may be reduced by a supplemental agreement to this contract if, during performing the work, the Contractor requests a reduction and the Contracting Officer determines that the reduction would be to the advantage of the Government.

52.236-4 Physical Data (Apr 1984)

Data and information furnished or referred to below is for the Contractor's information. The Government shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

(a) The indications of physical conditions on the drawings and in the specifications are the result of site investigations by: N/A..

(b) Weather conditions: N/A.

(c) Transportation facilities: N/A.

(d) Hydrological data consisting of flow rates, water surface elevations, velocities, and hydraulic permit information may be inspected at Western Federal Lands Highway Division, Contracts Section, 610 East Fifth Street, Vancouver, Washington 98661.

(e) Geotechnical data, subsurface investigation information, and design data, consisting of the following, may be obtained upon request. Written requests are required and may be submitted to the Contracts Section at the above address, by FAX at (360) 619-7932, or by e-mail at *contracts@mail.wfl.fhwa.dot.gov*.

(1) **Geotechnical Report 22-06, St Mary's Visitor Center**

TRANSPORTATION ACQUISITION REGULATIONS
CONTRACT CLAUSES

1252.228-73 Notification of Miller Act Payment Bond Protection (April 2005)

This notice clause shall be inserted by first tier subcontractors in all their subcontracts and shall contain information pertaining to the surety that provided the payment bond under the prime contract.

(a) The prime contract is subject to the Miller Act, (40 U.S.C. 3131 et al), under which the prime contractor has obtained a payment bond. This payment bond may provide certain unpaid employees, suppliers, and subcontractors a right to sue the bonding surety under the Miller Act for amounts owned for work performed and materials delivery under the prime contract.

(b) Persons believing that they have legal remedies under the Miller Act should consult their legal advisor regarding the proper steps to take to obtain these remedies. This notice clause does not provide any party any rights against the Federal Government, or create any relationship, contractual or otherwise, between the Federal Government and any private party.

(c) The surety which has provided the payment bond under the prime contract is:

_____
(Name)

_____
(Street Address)

_____
(City, State, Zip Code)

_____
(Contact & Tel. No.)

RESERVED

General Decision Number: MT080002 02/08/2008 MT2

Superseded General Decision Number: MT20070002

State: Montana

Construction Type: Highway

Counties: Montana Statewide.

HIGHWAY CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	02/08/2008

* SUMT2001-001 01/12/2007

ZONE PAY

CARPENTERS, CEMENTS MASONS, IRON WORKERS, LABORERS, POWER EQUIPMENT OPERATORS, TRUCK DRIVERS

The hourly wage rates applicable to each project shall be determined by measuring the road miles over the shortest practical maintained route from the County Court House of the following towns to the center of the job:

BILLINGS, BOZEMAN, BUTTE, GREAT FALLS, HAVRE, HELENA, KALISPELL, LEWISTOWN, MILES CITY, MISSOULA

ZONE 1: 0 to 30 miles - Free
ZONE 2: 30 to 60 miles - Base Pay +$2.50
ZONE 3: Over 60 miles - Base Pay + $4.00

	Rates	Fringes
Carpenters:		
Carpenter, Piledriverman	$ 21.64	8.85
Millwright	$ 23.64	8.85
Cement Mason	$ 20.36	8.50
Electricians:		
Area 1	$ 18.74	2.93+3.8%
Area 2	$ 20.13	4.76+3.8%
Area 3	$ 19.98	3.44+3.8%
Area 4	$ 19.84	3.51+3.8%
Area 5	$ 20.54	3.54+3.8%
Area 6	$ 18.02	3.44+3.8%

ELECTRICIANS AREA DESCRIPTIONS

AREA 1: Beaverhead, Deer Lodge, Granite, Jefferson, Madison, Silver Bow, and Powell Counties

AREA 2: Big Horn, Carbon, Carter, Custer, Dawson, Fallon, Garfield, Golden Valley, Musselshell, Powder River, Prairie, Rosebud, Stillwater, Treasure, Wibaux, and Yellowstone counties

AREA 3: Blaine, Cascade, Chouteau, Daniels, Fergus, Glacier, Hill, Judith Basin, Liberty, McCone, Petroleum, Pondera, Phillips, Richland, Roosevelt, Sheridan, Teton, Toole, Valley, and Wheatland Counties

AREA 4: Broadwater, Lewis and Clark, and Meagher Counties

AREA 5: Flathead, Lake, Lincoln, Mineral, Missoula, Ravalli, and Sanders Counties

AREA 6: Gallatin, Park, and Sweet Grass Counties

Ironworker		
Flathead, Glacier, Lake, Lincoln, Mineral, Missoula and Sanders Cos....	$ 24.80	13.71
Remaining Counties.....	$ 23.15	13.71
Laborers:		
Group 1.....	$ 16.37	6.75
Group 2.....	$ 19.07	6.75
Group 3.....	$ 19.26	6.75
Group 4.....	$ 20.13	6.75

LABORERS CLASSIFICATIONS

GROUP 1: Flag person

GROUP 2: All General Labor work; Burning Bar; Bucket man; Carpenter Tender; Caisson Worker; Cement Mason Tender; Cement Handler (dry); Chuck Tender; Choker Setter; Concrete worker; Curb Machine-Lay Down; Crusher and Batch Plant Worker; Fence Erector; Form Setter; Form Stripper; Heater Tender; Landscaper; Pipe Wrapper; Pot Tender; Powderman Tender; Rail and Truck Loaders and Unloaders; Riprapper; Sealants for Concrete and other materials; Sign Erection, Guard Rail and Jersey Rail; Stake Jumper; Spike Driver; Signalman; Tail Hoseman; Tool Checker and Houseman; Traffic Control worker

GROUP 3: Concrete Vibrator; Dumpman (Grademan); Equipment Handler; Geotextile and Liners; High-Pressure Nozzlemen; Jackhammer (Pavement Breaker); Laser equipment; Non-riding Rollers; Pipelayer; Posthole Digger (power); Power Driven Wheelbarrow; Rigger; Sandblaster; Sod Cutter-power; Tampers

GROUP 4: Ashpalt Raker; Cutting Torch; Grade Setter; High-Scaler; Power Saws (Faller & Concrete); Powderman ($1.00 per hour above Group 4 rate); Rock & Core Drill; Track or Truck mounted Wagon Drill; Welder including Air Arc

Line Construction		
Equipment Operator	$ 19.16	5.05
Groundman	$ 15.40	5.05
Painters:	$ 23.00	8.00

Pavement Marking/Milling and related work. Includes operating marking and all other equipment and all work involved in traffic marking including removal, surface preparation and application of pavement markings including epoxies, paints, tape, buttons, thermo- plastics and any other products applied for traffic marking purposes and for directing and regulating traffic, and cutting Rumble Strips..

Power Equipment Operator		
Group 1	$ 20.52	8.00
Group 2	$ 22.48	8.00
Group 3	$ 23.31	8.00
Group 4	$ 23.98	8.00
Group 5	$ 25.28	8.00
Group 6	$ 25.94	8.00
Group 7	$ 27.97	8.00

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: A-Frame Truck Crane; Air Compressor; Auto Fine Grader; Belt Finishing Machine; Boring Machine (small); Cement Silo, Crane; Crusher Conveyor, DW-10, 15, and 20 Tractor Roller; Farm Tractor; Forklift; Form-Grader; Front-end Loader under 1 cu yd;Oiler, Heavy Duty Drills; Pumpman; Oiler (All, except Cranes and Shovels)

GROUP 2: Air Doctor; Backhoe/Excavator/Shovel to & incl 3 cu yd Bit Grinder; Bitunimous Paving Travel Plant; Boring Machine, large: Broom, Self-Propelled; Concrete Bucket Dispatcher; Concrete Conveyor; Concrete Finish Machine; Concrete Float and Spreader; Concrete Travel Batcher; Distributor; Dozer, Rubber tired, Push, and Side Boom; Drills, Heavy Duty (all types); Elevating Grader/Gradall; Field Equipment Serviceman; Front-end Loader 1 cu yd to and incl. 5 cu yd; Grade Setter; Hoist/Tugger (All Hydralift & Similar); Industrial Locomotive; Motor Patrol (Except Finish);

Mountain Skidder; Oiler, Cranes & Shovels; Pavement Breaker, EMSCO; Power Saw, Self-Propelled; Pugmill; Pumpcrete/ Grout Machine; Punch Truck; Rollers (All except Asphalt Finish and Breakdown); Ross Carrier; Rotomill under 6 ft; Trenching Machine; Washing/Screening Plant

GROUP 3: Asphalt Finish Roller; Asphalt Breakdown Roller; Asphalt Paving Machine; Backhoe/Excavator/Shovel larger than 3 cu yd; Asphalt Screed; Concrete Batch Plant; Cableway Highline; Concrete Curing Machine; Cranes, 24 tons & under; Cranes, Creter; Cranes, Electric Overhead; Concrete Pump; Curb Machine/Slip Form Paver; Finish Dozer; Mechanic/Welder; Pioneer Dozer; Rotomill 6 ft and over; Scraper, Single Engine; Scraper Twin or pulling Belly Dump; Yo Yo Cat Front-end Loader over 5 cu yd;

GROUP 4: Asphalt/Hot Plant Operator; Cranes, 25 tons to 44 tons; Crusher Operator; Finish Motor Patrol; Finish Scraper

SPECIAL OPERATORS:

GROUP 5: Cranes, 45 tons to and including 74 tons

GROUP 6: Cranes, 75 tons to and including 149 tons

GROUP 7: Cranes, 150 tons to and including 250 tons; Cranes over 250 tons: add $1.00 for every 100 tons over 250 tons; Crane, Stiff-Leg or Derrick; Crane, Tower all); Crane, Whirley (all); Helicopter Hoist

Truck drivers:		
Group 1	$ 17.76	7.75
Group 2	$ 22.73	7.75

GROUP 1: Pilot Car

GROUP 2: Combination Truck and Concrete Mixer and Transit Mixer; Dry Batch Trucks; Distributor Driver; Dumpman; Dump Trucks and similar equipment; Dumpster; Flat Trucks; Lumber Carriers; Lowboys; Pickup; Powder Truck Driver; Power Boom; Serviceman; Service Truck/Fuel Truck/Tireperson; Truck Mechanic; Trucks with Power Equipment; Warehouseman, Partsman, Cardex and Warehouse Expeditor; Water Trucks

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.
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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

ATTENTION

The following Special Contract Requirements (SCRs) are only a portion of the specifications for this project. These SCRs amend and supplement the Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-03. The FP-03 U.S. Customary Units is a separately published book. In order to understand the solicitation properly you need to have the FP-03 U.S. Customary Units as well as this packet. Pay particular attention to the provisions of Subsection 104.04 in the FP-03. This Subsection explains how each of the many contract documents fit together.

If you would like to view the FP-03 U.S. Customary Units electronically, go to:
http://www.wfl.fha.dot.gov/design/specs/fp03.htm

If you would like a printed copy of the FP-03 U.S. Customary Units, contact the:

Contracts Section
Federal Highway Administration
Western Federal Lands Highway Division
610 East Fifth Street
Vancouver, WA 98661
Phone: 360.619.7520
Fax: 360.619.7520
E-mail: contracts@mail.wfl.fha.dot.gov

(printed copies of the FP-03 will be distributed to the successful bidder)

SCRs Table of Contents
Project: MT PRA-GLAC 10(28), St. Mary Visitor Center Rehabilitation

SCRs TABLE OF CONTENTS

SPECIAL CONTRACT REQUIREMENTS (SCRs)

The following Special Contract Requirements amend and supplement the Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-03 U.S. Customary Units.

DIVISION 500 RIGID PAVEMENTS

DIVISION 600 INCIDENTAL CONSTRUCTION

DIVISION 700 MATERIAL

03USC06/22/07

Section 101.— TERMS, FORMAT, AND DEFINITIONS

101.04 Definitions. Amend as follows:

Delete the text of these definitions and substitute the following:

Award — The written acceptance of an offeror's proposal by the C.O.

Bid — When used in a project package, carries the same meaning as Offer.

Bidder — When used in a project package, carries the same meaning as Offeror.

Bid Guarantee — A form of security assuring that the offeror will not withdraw an offer within the period specified for acceptance and will execute a written Task Order and furnish required bonds.

Bid Schedule — The prepared schedule included with the offer forms, containing the estimated quantities of pay items for which unit prices are requested.

Contract — The written agreement between the Government and the Contractor setting forth the obligations of the parties for the ordering of, performance of, and payment for, the prescribed work. Refers to both the Basic Contract and the Task Orders.

Contract Time — The specified time allowed for completion of all Task Order work.

Notice to Proceed — Written notice to the contractor to begin the Task Order work.

Pay Item — A specific item of work for which a unit price is provided in the Task Order.

Payment Bond — The security executed by the contractor and surety or sureties and furnished to the Government to ensure payments as required by law to all persons supplying labor or material according to the Task Order.

Performance Bond — The security executed by the contractor and surety or sureties and furnished to the Government to guarantee completion of the Task Order work.

Project — The specific section of the highway or other property on which construction is to be performed under the Task Order.

Solicitation — The complete assembly of documents (whether attached or incorporated by reference) furnished to prospective offeror(s).

Surety — An individual or corporation legally liable for the debt, default, or failure of a contractor to satisfy a Task Order obligation.

Work — The furnishing of all labor, material, equipment, and other incidentals necessary to successfully complete the project according to the Task Order.

Add the following:

Basic Contract — The contract Indefinite Delivery, Indefinite Quantity (IDIQ) which is a written agreement between the Government and the Contractor(s) setting forth the general obligations of the parties for the ordering of, performance of, and payment for, the work to be performed under the subsequent Task Orders.

Holidays — Holidays occur on the following days:

- 1st day of January - New Year's Day
- 3rd Monday of January - Martin Luther King, Jr. Day
- 3rd Monday in February - Presidents' Day
- Last Monday in May - Memorial Day
- 4th day of July - Independence Day
- 1st Monday in September - Labor Day
- 2nd Monday in October - Columbus Day
- 11th day in November - Veterans Day
- 4th Thursday in November - Thanksgiving Day
- 25th day in December - Christmas Day
- Other days declared holidays by the Congress or the President
- If a holiday falls on a Saturday, the preceding Friday is also a legal holiday. If a holiday falls on a Sunday, the Monday following is also a legal holiday.

Offer — A written proposal by an offeror to perform work at a proposed price.

Offeror — Any individual or legal entity submitting an offer.

Task Order — An order for a specific level of work that may or may not be related to one or more projects.

03USC06/22/07

Section 102.— BID, AWARD, AND EXECUTION OF CONTRACT

102.02 Preparation of Bids. Delete the Subsection title, text of the first paragraph, and substitute the following:

102.02 Preparation of Offers. Follow the requirements of FAR Clause 52.215-1 Instructions to Offerors - Competitive Acquisition.

102.03 Bid Guarantee. (a) General. Delete the text of the first sentence and substitute the following:

> Submit a bid guarantee of 20 percent of the total bid amount for all schedules or $3 million, whichever is less.

102.05A Contract Award. (Added Subsection.)

Follow the requirements of FAR Clause 52.214-19, Contract Award - Sealed Bidding - Construction.

The successful offeror will be awarded all pay items listed in the bid schedule.

102.06 Performance and Payment Bonds. Delete the text of the first paragraph and substitute the following:

Follow the requirements of FAR Clause 52.228-15 Performance and Payment Bonds – Construction. Furnish a performance bond and a payment bond each in the penal amount of 100 percent of the original task order price.

03USC11/14/06

Section 103.— SCOPE OF WORK

103.01 Intent of Contract. Add the following:

Additional work on sites within or in the vicinity of the project may be requested by the CO. Such work generally will be in response to natural disasters. This paragraph does not affect the respective responsibilities of the parties under Subsection 107.06. Provide cost proposals and perform work as ordered by the CO.

103.06 Issue Resolution. (Added Subsection.)

Resolve project issues at the lowest authorized level and in the most expedient manner possible. Escalate unresolved issues to the next higher level in a timely manner to avoid adverse impacts to costs, risks, or time. Either party may request that an issue be escalated. Submit requests in writing. Upon the request of either party, both parties must escalate the issue. An exception to escalating an issue may be observed when both parties agree extra time is needed for the development of facts.

Decision-making is encouraged to be made at the lowest authorized level. Recommendations, options, and ideas by all team members are requested. Decisions made at the lowest level possible will be supported by all management levels. Countermands of decisions will not be permitted, except where there is a conflict with code, regulation, law, the contract, or a change of critical facts or information, which causes a re-evaluation of the resolution. Support of a countermand by the original decision team is critical. All contractor and Government team members must understand why the change is necessary and must be able to support it.

03USC06/22/07

Section 104.— CONTROL OF WORK

104.03 Specifications and Drawings. Amend as follows:

(b) Specific requirements for concrete and miscellaneous structures. Delete paragraph **(1)***(c)* and substitute the following:

(c) Forms and falsework for cast-in-place concrete structures less than or equal to 1800 millimeters in height;

Add the following paragraph:

(c) As-built working drawings. Furnish two sets of as-built working drawings. The Government will provide two set(s) of contract drawings to be used exclusively for recording the as-built details of the project. Use red pencil or red ink to record the information described below.

Note all additions or revisions to the location, character, and dimensions of the prescribed work shown on the contract drawings. Line out all details shown that are not applicable to the completed work. Check off details shown that were incorporated into the completed work without change.

Retain the drawings at the project site and, as work progresses, continuously update them to reflect the as-built details. Upon request, make the drawings available to the CO to review for compliance with these specifications.

As a minimum, show the following types of changes on the as-built drawings:

(1) Typical section(s)

(a) Revisions in dimensions; and

(b) Revisions in materials.

(2) Plan and profile

(a) Plan

(1) Changes in the construction limits;

(2) Revisions in location, type, and grade of road approaches;

(3) Location and type of utilities;

(4) Skew of culverts;

(5) Location of monuments and permanent references;

(6) Elevations for all underground crossings of utilities;

(b) Profile

(1) Equations;

(2) Culvert diameter, length, type, and stationing;

(3) Miscellaneous

(a) Revisions to parking areas or turnouts; and

(b) Final location, type and length of curbs, sidewalks, etc.

Furnish the as-built working drawings to the CO before the final inspection. Correct all details found during the final inspection that are not shown on the as-built drawings and return to the CO within 5 working days.

104.04 Coordination of Contract Documents. Delete the text of this Subsection and substitute the following:

The FAR, TAR, Basic Contract, special contract requirements, plans, and standard specifications are contract documents. A requirement in one document is binding as though occurring in all the contract documents. The contract documents are intended to be complementary and to describe and provide for a complete contract. In case of discrepancy, calculated and shown dimensions govern over scaled dimensions. The contract documents govern in the following order:

(a) Federal Acquisition Regulations;

(b) Transportation Acquisition Regulations;

(c) Basic IDIQ Contract;

(d) Special Contract Requirements (SCRs);

(e) Plans; and

(f) Standard specifications.

104.05 Load Restrictions. Add the following:

Comply with Glacier Park vehicle weight and size restrictions on the Going-to-the-Sun Road as follows:

(a) Weights.

(1) Do not exceed 80,000 pounds total gross vehicle weight for loaded hauling vehicle;

(2) Carry no more than 20,000 pounds per single axle;

(3) Carry no more than 34,000 pounds combined using a tandem axle (i.e., 2 axles at least 3.6 feet and no more than 7.0 feet apart that oscillate together.) Carry a gross load of 34,000 pounds each if 2 consecutive sets of tandem axles are used, provided the overall distance between the first and last axles of such sets are at least 36 feet.

(4) Carry no more than 42,500 pounds combined for a triple axle combination.

Prior to June 1, reduce the allowable weights listed above by 49%.

(b) Sizes.

(1) Comply with Montana State DOT Regulations. Obtain all state permits that are required, and obtain approval from the CO if over-width and/or over-length vehicles, and accompanying pilot cars, will be traveling along portions of the Going-to-the-Sun Road.

(2) Vehicles and equipment are restricted to the east side of the park and will need to be accompanied by an escort car in front and will have to obtain a Park travel permit. Entry to the park will be from St Mary. Vehicles will not be permitted on the higher elevation portions of Going to the Sun Road or beyond Rising Sun due to road construction. Over-width and/or over-length vehicles will not be allowed during high traffic periods. Coordinate at least 7 days in advance with the CO to obtain a Park travel permit.

104.06 Other Contracts. Add the following:

The Federal Highway Administration, Glacier National Park, and the Montana Department of Transportation have awarded, and intend to further award other contracts or task orders with concurrent construction activities. These other contracts and task orders may impact operations on this project. Construction on other contracts have either already begun, or are expected to begin during the 2008 construction season. The contracts may include, but are not limited to the following:

- Construction of bypass lanes at the West Entrance Station;
- Reconstruction along the GTSR between the West Tunnel and Haystack;
- Emergency relief projects (ERFO) due to 2006 flooding events.

Schedule construction activities to minimize delays and interference for all operations.

03USC07/25/06

Section 105.— CONTROL OF MATERIAL

105.02 Material Sources. Amend as follows:

(b) Contractor-located sources. Add the following to the first paragraph:

Obtain permits according to Subsection 107.10.

Add the following:

All imported material from Contractor-located sources must be certified by the Government to be free from noxious weeds or invasive plant materials and other deleterious material before entering the Park at the start of each construction season. To determine if a potential material source meets the weed-free requirement, submit a list of sources to be inspected by the Government. In addition to the source name and location, submit potential mitigative measures to make the source weed-free. The Government will furnish an inspection report, weather permitting, within 21 days of a submission of potential material sources, listing the status of the source and any mitigative measures that would need to be accomplished before use. Coordinate with the CO on specific dates.

Material obtained from within the boundaries of the Blackfeet Indian Reservation will be subject to Blackfeet Tribes' political jurisdiction. The Tribe has a Tribal Employment Rights Ordinance (TERO), which requires all employers subject to the Tribe's jurisdiction to give preference in employment, training, and subcontracting to Indians and Indian-owned businesses and pay certain fees. For further information on the TERO requirements, contact the Blackfeet TERO office at:

Blackfeet Tribal Employment Rights Office
P.O. Box 850
Browning, Montana 59417
Telephone: 406-330-7887

The United States is not subject to the TERO requirements, and is not a party to any agreements between the Tribe and the contractor pursuant to the TERO. The Tribe administers the TERO pursuant to its dependent-sovereign status as an Indian nation with jurisdiction over activities within the reservation boundaries. Contractors should take into consideration the Tribe’s TERO in preparing their bids to the extent applicable.

105.04 Storing and Handling Material. Add the following:

Within the Park, comply with the following:

(a) In addition to the sites listed in the Phase VI task order, use the following sites listed in the Table 105-1 for storage of materials, equipment parking, and for truck turn-around. Close the entire site to public use when being utilized for staging, storage operations, or active construction operations. Electrical power is not available at any of these sites; use of an electric generator is allowed at all sites.

Table 105-1

Approximate Locations of Staging and Storing Area

Location by Milepost or Station	Description
MP 49.5	St Mary VC parking lot expansion area
	Rising Sun parking lot

(b) The job site trailer may be located to the east of the north visitor center parking lot between the existing curb and existing sidewalk. Power is available approximately 200' south of this location.

(c) Park construction equipment within the limits of current construction operations, according to the requirements of Subsection 107.11.

(d) Keep storage and equipment parking areas clean and orderly. Do not park equipment on temporary stockpiles of topsoil. Restore all Government-provided storage and staging sites to their original condition when the contract or task order is completed, whichever occurs first.

(e) Only staging areas listed in Subsection 105.04**(a)** are allowed within the Park unless approved by the CO.

(f) Water may be obtained from the fire hydrant on site.

(g) Stockpile existing gravel excavated under Section 204 at staging and storage area as directed by the CO.

Outside the Park, comply with the following:

Provide additional space as needed. Do not use private property for staging or storage without written permission of the owner or lessee. Furnish copies of all agreements. Secure all permits and clearances for use of the storage area and provide copies of the documents. Obtain permits according to Subsection 107.10.

03USC09/21/07

Section 106.— ACCEPTANCE OF WORK

106.01 Conformity with Contract Requirements. Amend as follows:

Delete the second paragraph and substitute the following:

References to standard test methods of AASHTO, ASTM, GSA, and other recognized standard authorities refer to the methods in effect on the date of solicitation for bids. Use the 26th edition of the AASHTO Standard Specifications for Transportation Materials and Methods of Sampling and Testing, and Appendix A and B of the Federal Lands Highway Field Materials Manual for this project. Use the modified AASHTO procedures for sampling and testing contained in Appendix B of the Federal Lands Highway Field Materials Manual; except, when a specified sampling or test method is not included in Appendix B, sample and test according to the referenced AASHTO test procedure. Appendix A of the Federal Lands Highway Field Materials Manual contains several sampling and testing methods which may be required for this project that are not found in AASHTO.

Delete the eighth paragraph and substitute the following:

Remove, repair, or replace work that does not conform to the contract, or to prevailing industry standards where no specific contract requirements are noted. Removing, repairing, or replacing work; providing temporary traffic control; and any other related work to accomplish conformity will be at no cost to the Government.

Add the following:

Obtain copies of the following documents by going to our webpage at:

http://www.wfl.fha.dot.gov/construction/cmr/

- Appendices A and B of the Federal Lands Highway Field Materials Manual, dated 02/10/97;
- Standard WFLHD Method of Test for Accelerated Weathering of Aggregate by Use of Dimethyl Sulfoxide (DMSO);
- Standard WFLHD Test Method for Determining Optimum Asphalt Content for Hot Open-Graded Asphalt Concrete Pavement; and
- Field Note Samples, dated April 2004.

- **106.02 Visual Inspection.** Delete the text of this Subsection and substitute the following:

Acceptance is based on visual inspection of the work for compliance with the specific contract requirements. In the absence of specific contract requirements or tolerances, prevailing industry standards will be used.

106.03 Certification. Add the following after the second paragraph:

Maintain records of all required certifications according to Subsections 103.04, 153.04, and 154.04. Submit certifications to the CO.

Check certifications, before incorporating the materials into the work, to ensure that the requirements of the contract have been met. Mark the certifications with the following information: project name, project number, contract item number, item description, Contractor's signature, and date.

03USC06/22/07

Section 107.— LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

107.01 Laws to be Observed. Delete the third paragraph and substitute the following:

Comply with the terms and conditions included in all permits and agreements obtained by the Government for performing the work included in this contract (See Section H). Notify the CO immediately of any changes, including modifications to government-obtained permits, or any additional permits or agreements that are required by the Contractor's methods of operation. Allow adequate time in the construction schedule for any additional permits or changes to government-obtained permits. Furnish copies of all acquired permits and agreements not in the contract.

Authorization to discharge under the Montana Pollution Discharge Elimination System (MPDES) is required for this project. The "*Storm Water Pollution Prevention Plan" (SWPPP)*, "*General Permit"*, and the letter of authorization are included in this contract, see Sections H and I. Comply with the terms and conditions included in the SWPPP and the General Permit.

Comply with the requirements of the Fire Protection and Suppression Plan included in this contract (See Section J).

107.02 Protection and Restoration of Property and Landscape. Add the following to the fourth paragraph:

Paleontological remains and archeological specimens found within the construction area are the property of the National Park Service and will be removed only by the National Park Service or designated representatives. Notify the CO within an hour of discovery, and suspend operations in the immediate area if paleontological remains or archeological specimens are found. The notification will include a brief statement of the location and details of the finding. Proceed with operations only after authorized from the CO.

107.03 Bulletin Board. Add the following:

(g) The "Beck" poster, according to FAR Clause 52.222-39 Notification of Employee Rights Concerning Payment of Union Dues or Fees.

107.08 Sanitation, Health, and Safety. Add the following after the first paragraph:

Submit an accident prevention plan for implementing safety and health standards at the Preconstruction Conference. Use the Government furnished Form WFLHD-28, *Guide Outline of Contractor's Accident Prevention Plan*.

107.10 Environmental Protection. Delete the text of this Subsection and substitute the following:

Conform to the following:

(a) The Federal Water Pollution Control Act (33 USC § 1251 et seq.).

(1) Except as authorized by this contract, do not operate mechanized equipment, discharge or place material within the boundaries of any U.S. waters as identified by the ordinary high water mark, high tide line, or edge of the wetland. This includes wetlands, unless authorized by a permit issued by the U.S. Army Corps of Engineers according to 33 USC § 1344, and if required by the state agency having jurisdiction over the discharge of material into the waters of the U.S. In the event of an unauthorized discharge:

(a) immediately prevent further contamination;

(b) immediately notify appropriate authorities and the CO; and

(c) mitigate damages as required.

(2) Separate work areas, including material sources by the use of a suitable barrier that prevents sediment, petroleum products, chemicals, other liquids, or solid materials from entering the waters of the U.S. Construct and remove barriers to avoid discharge of material into the waters of the U.S. Remove and properly dispose of sediment or other material collected by the barrier.

(b) Construction Activities Outside Construction Limits. Before beginning construction activities outside the construction limits (such as material sources, disposal sites, waste areas, access roads, water sources, stockpiles and staging areas) that will require ground disturbance, occupation, clearing, or other environmental impacts provide the following documents.

The requirements below do not apply to commercial sources that are established, have provided material to public and private entities on a regular basis over the last two years, have appropriate State and local permits, and do not require expansion outside their currently established and permitted area.

(1) Proposed Activity Description. Submit a description, schedule, and location of the proposed activities for approval of the CO. Include maps of the area and other relevant information.

(2) Cultural Resources. Submit written documentation satisfactory to the CO for a finding of either "no historic properties affected" or "no effect" according to 36 CFR 800.4(d)(1) for historic properties on or eligible for listing to the National Register of Historic Places. Provide either:

(a) Documentation showing there are no cultural resources present, and a finding of either "no historic properties affected" or "no effect" according to 36 CFR 800.4(d)(1). Documents must be prepared by an individual qualified under the Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation, 48 FR 44716-44740.

Documentation must be satisfactory to the State Historic Preservations Officer (SHPO) or Tribal Historic Preservations Officer (THPO) as appropriate, according to 36 CFR 800.3(c).

The CO will forward the documentation to the SHPO or THPO. Anticipate a minimum of 30 days from receipt of the documentation by the SHPO or THPO before use of the site may be approved; or

(b) Documentation showing a finding of either "no historic properties affected" or "no effect" according to 36 CFR 800.4(d)(1) has been previously obtained for the proposed activities from the State, Tribal Government or Federal Land Management Agency responsible for the land. Include attached copies of SHPO concurrence, or Memorandum of Agreement (MOA) where concurrence is not required.

(3) Species Protected Under the Endangered Species Act of 1973. Submit written documentation satisfactory to the CO that the proposed action will have no effect to any threatened or endangered species or their critical habitat. Provide either:

(a) A current list of all threatened or endangered species in the site of proposed activities from the U.S. Fish and Wildlife Service; and a recommendation of a "no effect" determination according to Section 7 of the Endangered Species Act prepared by a biological specialist with a minimum of 3 years of experience in Endangered Species Act compliance or other qualifications acceptable to the CO. Allow up to 30 days to obtain the current list of all threatened or endangered species from the U.S. Fish and Wildlife Service; or

(b) Documentation showing the proposed activities have previously been determined to comply with the Endangered Species Act and this determination remains valid. This documentation must be from the State, Tribal Government or Federal Land Management Agency responsible for the land. Attach evidence of compliance, including correspondence with the U.S. Fish and Wildlife Service.

(4) Wetlands as Defined by the U.S. Army Corps of Engineers' 1987 Wetland Delineation Manual (WDM). Submit written documentation satisfactory to the CO, that the proposed action will comply with Section 404 of the Clean Water Act, Executive Order 11990, and will not affect any wetlands. Documentation must be prepared by a wetland specialist with a minimum of 3 years of experience in wetland delineation using WDM or other qualifications acceptable to the CO.

(5) Federal Lands. Before use of sites on federal lands, submit a copy of the Letter of Approval or Special Use Permit from the applicable federal agency allowing use of the site for intended purposes.

(6) Tribal, State and Local Approvals. Comply with applicable laws regarding the proposed activities. Submit copies of required clearances, including hazardous waste compliance, tribal, State and local permits and approvals.

Allow 12 days (in addition to other agency time requirements) for approval of documents submitted to the CO.

(c) Oil and Hazardous Substances. Submit a Hazardous Spill Plan describing what actions will be taken in case of a spill, and incorporate preventative measures to be implemented (such as the placement of refueling facilities, storage and handling of hazardous materials, etc).

Submit the plan at least 2 days before beginning work.

Repair leaks on equipment immediately. Do not use equipment that is leaking. Keep a supply of acceptable absorbent materials at the job site in the event of spills. Acceptable absorbent materials are those that are manufactured specifically for the containment and clean up of hazardous materials.

Immediately notify the CO of all hazardous spills.

(d) Additional Construction Requirements

(1) Suspend construction activities when a grizzly bear or wolf comes near an active construction area and creates a potential animal/human conflict. Immediately notify the CO. Proceed with operations only after authorized by the CO.

(2) Report any observation of Canada Lynx, gray wolf, grizzly bear, or bald eagle within the project area to the CO.

(3) Equip all construction equipment with adequate mufflers to reduce noise.

107.11 Protection of Forests, Parks, and Public Lands. Add the following:

Due to the fragile ecological system of Glacier National Park, comply with the following:

(a) All vehicles and equipment will be inspected by the CO before their entry into the Park for mud, weeds and other unwanted substances. Steam clean all earth-moving equipment (including hauling vehicles) of mud and weeds before entering the Park. Subsequent entries of hauling vehicles will not require cleaning unless requested. Notify the CO a minimum of 48 hours before the entry of vehicles and equipment to the Park.

(b) Do not produce asphalt products within the Park boundaries.

(c) Vehicles or equipment will not be permitted outside the construction limits, staging sites, or on topsoil areas, except as approved by the CO.

(d) Do not camp or sleep in vehicles within Park boundaries.

(e) Do not use explosive material(s) within the Park boundaries.

(f) Comply with all Park requirements and restrictions, including, but not limited to the following: Do not feed or disturb wildlife within the Park boundaries. Store and handle food, fuel, or other attractants in a manner that does not attract bears, i.e., no food, pet food, garbage, drinks, trash, or food and drink containers will be placed outside vehicles, trailers, buildings, or bear-resistant containers except during actual use. Contractor supplied garbage bins must be bear proof and meet Park requirements. Any mishandling of garbage, trash, food, and other potential bear attractants described above will result in the responsible person, or Contractor, receiving a citation subject to fine.

(g) The Contractor, subcontractors, and all employees will be required to attend Park orientation meetings hosted by the National Park Service prior to beginning work. Notify the CO 14 days prior to beginning work so orientations can be scheduled. Disseminate and enforce all information provided at the initial orientation meeting to Subcontractors hired after initial Park orientation meeting.

(h) Do not pump water from streams or other bodies of water within the Park, except as allowed according to Section 158.

(i) Equipment servicing and/or refueling will not be conducted within 100 feet of streams or water bodies when possible.

(j) Do not use chemicals for dust control.

(k) No chemicals and petroleum products will be stored within 100 feet of streams or water bodies when possible.

03USC09/21/07

Section 108.— PROSECUTION AND PROGRESS

108.01 Commencement, Prosecution, and Completion of Work. Amend as follows:

Add the following:

Furnish at least 48 hours advance notice before changing the current work schedule. Work schedule changes that include additional shifts require 14 days notice.

Perform work under this contract according to the following:

(a) Do not perform construction operations between 6 p.m. Friday and 6 a.m. the following Tuesday of the Memorial Day and Labor Day weekends.

(b) Limit work as provided in Subsection 107.02, 107.10, 156.03 and 156.06.

(c) Limit speeds on haul roads to 25 mph or slower, depending on site conditions.

(d) Pursuant to FAR Clause 52.236-5; remove from the project any driver who receives two traffic citations while driving within Glacier National Park.

(e) Do not perform soil disturbing activities until the "Montana Pollution Discharge Elimination System Application for Authorization to Discharge Under the General Permit for Storm Water Associated with Construction Activity" has been approved as required in Subsection 107.01.

(f) Complete all work by June 13, 2008.

Delete the text of the second paragraph and substitute the following:

A preconstruction conference will be held after the task order is awarded and before beginning work. Provide a work plan according to Section 155.

108.01A Labor. (Added Subsection.)

Follow the requirements of FAR Clause 52.222-6 Davis Bacon Act.

Adjacent or virtually adjacent work sites are defined to be work sites within ½ mile of the project. Application of the Davis-Bacon Act for work sites beyond ½ mile of the project will be determined by the CO.

108.02 Subcontracting. Amend as follows:

Delete the first paragraph and substitute the following:

52.222-11 Subcontracts (Labor Standards), and 52.236-1, Performance of Work by the Contractor are supplemented as follows.

Delete the fourth paragraph and substitute the following:

In FAR Clauses 51.219-8, Utilization of Small Business Concerns and 52.237-27, Prompt Payment for Construction Contracts, the subcontracts include both on-site work and supply contracts.

Certified payrolls will be used to determine Davis-Bacon wages and benefits paid. Submit certified statements, at least monthly, declaring the wages and benefits paid to non-Davis Bacon personnel under this contract.

In FAR Clause 52.236-1, Performance of Work by the Contractor, the percentage of work performed on-site by the Contractor will be computed as 100% less the combined initial dollar amount of all subcontracts involving on-site labor as a percent of the original dollar amount of the contract.

108.04 Failure to Complete Work on Time. Delete the text and table of this Subsection and substitute the following:

Follow the requirements of FAR Clause 52.211-12 Liquidated Damages — Construction.

Liquidated damages in the amount specified in Table 108-1 will be assessed for each calendar day beyond the time specified in the contract until substantial completion of the work.

Liquidated damages will not be assessed for the following:

(a) The day of the final inspection.

(b) Days required to perform work added to the contract after substantial completion including items identified during the final inspection that were not required before that time.

(c) Delays by the Government after all work is complete and before a formal acceptance is executed.

(d) Periods of time when all work is complete but acceptance is delayed pending the plant establishment period or similar warranty period.

(e) During winter shutdown periods ordered by the CO.

Table 108-1
Charge for Liquidated Damages for Each Day Work Is Not Substantially Completed

Original Contract Price		Daily Charge
From More Than —	To and Including —	
$ 0	$ 1,000,000	$ 500
1,000,000	2,000,000	1,100
2,000,000	5,000,000	2,200
5,000,000	10,000,000	2,700
10,000,000	and more	3,300

108.06 Suspension. (Added Subsection.)

Follow the requirements of FAR Clause 52.242-14 - Suspension of Work.

Suspend work, either in whole or in part, for such periods deemed necessary due to bald eagle nest sites, grizzly bears, and wolves. See Subsection 107.10.

03USC08/29/07

Section 109.— MEASUREMENT AND PAYMENT

109.01 Measurement of Work. Delete the text of paragraph **(b)** and substitute the following:

(b) Task Order item number;

109.02 Measurement Terms and Definitions. Amend the following:

Delete the second paragraph **(b)** designator and substitute the following:

(c) Cubic yard.

Delete the text of paragraph **(m)** and substitute the following:

(m) Square yard. 9 square feet. Longitudinal and transverse measurements for area computations will be made horizontally. No deductions from the area computation will be made for individual fixtures having area of 9 square feet or less. Do not measure overlaps.

Add the following:

(p) Fixed hourly rate. Measure the actual number of hours ordered by the CO and performed by the Contractor.

109.03 Weighing Procedures and Devices. (c) Project weighing system. Delete the text of the first paragraph and substitute the following:

Furnish, erect, and maintain acceptable automatic digital scales. For small quantities, manual scales may be used when approved in writing by the CO and if the method of weighing meets all other contract requirements. Provide scales that record mass at least to the nearest 100 pounds. Maintain the scale accuracy to within 0.5% of the correct mass throughout the range of use.

109.03 Weighing Procedures and Devices. Delete the text of paragraph **(c)(2)** and substitute the following:

(2) Task Order pay item number and description.

109.04 Receiving Procedures. Delete the text of paragraph **(b)** and substitute the following:

(b) Task Order pay item number and description.

109.05 Scope of Payment. Amend as follows:

Delete the text of the first paragraph and substitute the following:

Payment for all contract work is provided, either directly or indirectly, under the pay items shown in the bid schedule, or under the pay items shown in a separate temporary traffic control task order.

Add the following:

(c) Payment under other task orders. The work listed below is to be accomplished in accordance with Section 635 of this task order, but paid via a separate task order for temporary traffic control. Items paid by that separate temporary traffic control task order include the following:

- Temporary traffic control, flagger

109.08 Progress Payments. Amend as follows:

Delete the text of paragraph **(b)** and substitute the following:

(b) Closing date and invoice submittal date. The closing date for progress payments will be designated by the CO. Include work performed after the closing date in the following month's invoice. For work performed between September and July of any year, submit invoices to the designated billing office by the 7th day after the closing date. Invoices received by the designated billing office after the 16th day following the closing date, for work included in the September through July invoices, will not be accepted for payment processing that month. For work included in the August invoice, submit the invoice to the designated billing office by the 5th day after the closing date. Invoices received by the designated billing office after the 5th day following the closing date, for work included in the August invoice, will not be accepted for payment processing that month. Include late, unprocessed invoice submittals in the following month's invoice.

Delete the text of paragraph **(e)** and substitute the following:

(e) Processing progress payment requests. No payment will be made for work unless field note documentation for the work was provided by the closing date.

(1) Work performed between September and July

(a) Invoices received by the 7th day following the closing date.

(1) Proper invoices. If the invoice meets the requirements of Subsection 109.08**(c)**, and the quantities and unit prices shown on the contractor's invoice agree with the corresponding quantities and unit prices shown on the Government's receiving report, the invoice will be paid.

(2) Defective invoices. If the invoice does not meet the requirements of Subsection 109.08**(c)**, or if any of the quantities or unit prices shown on the contractor's invoice exceed the corresponding quantities and unit prices shown on the Government's receiving report, the invoice will be deemed defective and the Contractor so notified according to FAR Clause 52.232-27(a)(2). Defective invoices will not be corrected by the Government and will be returned to the contractor within 7 days after the Government's designated billing office receives the invoice.

Revise and resubmit returned invoices by the 18th day following the closing date. The CO will evaluate the revised invoice. If the invoice still does not meet the requirements of Subsection 109.08**(c)**, the contractor will be so notified according to FAR Clause 52.232-27(a)(2), and no progress payment will be made that month. Correct the deficiencies and resubmit the invoice the following month.

If the revised invoice meets the requirements of Subsection 109.08**(c)**, but still has quantities or unit prices exceeding the corresponding quantities and unit prices shown on the Government's receiving report, the Government's data for that item of work will be used. The contractor's invoice, as revised by the Government's receiving report, will be forwarded for processing by the 23rd day following the closing date. The contractor will be notified by the 23rd day following the closing date of the reasons for any changes to the invoice.

(b) Invoices received between the 8th and 16th day following the closing date.

(1) Proper invoices. If the invoice meets the requirements of Subsection 109.08**(c)**, and the quantities and unit prices shown on the Contracto's invoice agree with the corresponding quantities and unit prices shown on the CO's receiving report, the invoice will be deemed proper and forwarded for processing within 7 days of receipt.

(2) Defective invoices. If the invoice does not meet the requirements of Subsection 109.08**(c)**, the invoice will be deemed defective, the Contractor so notified according to FAR Clause 52.232-27(a)(2), and no progress payment will be made that month. Correct the deficiencies and resubmit the invoice the following month.

If the invoice meets the requirements of Subsection 109.08**(c)**, but has quantities or unit prices exceeding the corresponding quantities and unit prices shown on the Government's receiving report, the Government's data for that item of work will be used. The contractor's invoice, as revised by the Government's receiving report, will be forwarded for processing within 7 days after receiving the invoice. The contractor will be notified, within 7 days of the Government's receipt of the invoice, of the reasons for any changes to the invoice.

Delete the text of paragraph **(f)** and substitute the following:

(f) Partial payments. Invoices may include the following:

(1) Progress payments may include partial payment for material to be incorporated in the work, provided the material meets the requirements of the contract and is delivered on, or in the vicinity of, the project site or stored in acceptable storage places.

Partial payment for material does not constitute acceptance of such material for use in completing items of work. Partial payments will not be made for living or perishable material until incorporated into the project.

(2) Partial payment for preparatory work. Partial payment for preparatory work does not constitute acceptance of work.

Individual and cumulative partial payments for preparatory work and material will not exceed the lesser of:

- 80 percent of the contract bid price for the item; or
- 100 percent of amount supported by copies of invoices submitted.

The quantity paid will not exceed the corresponding quantity estimated in the contract.

Submit pay notes according to Section 109. Provide a cost breakdown of the bid item components and submit invoices or other documents supporting the partial payment.

The CO may adjust partial payments as necessary to protect the Government.

03USC06/22/07

Section 151.— MOBILIZATION

Payment

151.03 Delete the text of this Subsection and substitute the following:

The accepted quantity, measured as provided in Subsection 109.02, will be paid at the task order price per unit of measurement for the Section 151 pay item shown in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

Progress payments for mobilization lump sum will be paid as follows:

(a) Bond premiums will be reimbursed according to FAR Clause 52.232-5 Payments Under Fixed-Price Construction Contracts, after receipt of the evidence of payment.

(b) When 5 percent of the original task order amount is earned from other bid items, 50 percent of the mobilization item, or 5 percent of the original task order amount, whichever is less, will be paid.

(c) When 10 percent of the original task order amount is earned from other bid items, 100 percent of the mobilization item, or 10 percent of the original task order amount, whichever is less, will be paid.

(d) Any portion of the mobilization item in excess of 10 percent of the original task order amount will be paid after final acceptance.

03USC06/06/06

Section 152.— CONSTRUCTION SURVEY AND STAKING

Construction Requirements

152.02 General. Delete the text of this Subsection and substitute the following:

At the preconstruction conference, submit a cost breakdown of the individual items included in the lump sum item for use in making progress payments.

(a) Survey schedule. Include staking activities in the construction schedule submitted according to Section 155. Include the dates and sequence of each staking activity.

(b) Government set reference lines and points. The Government has set horizontal and vertical control points for the project. The location and identity of each control point are shown on the plans.

Before beginning construction, notify the CO of any missing control points or stakes. The Government will reestablish control points and stakes missing before the beginning of construction.

(c) Pre-survey meeting. Before surveying or staking, discuss and coordinate the following with the CO:

(1) Surveying and staking methods;

(2) Stake marking;

(3) Grade control for courses of material;

(4) Referencing;

(5) Structure control; and

(6) Any other procedures and controls necessary for the work.

Preserve all initial reference and control points. After beginning construction, replace all destroyed or disturbed initial reference or control points necessary to the work.

Prepare field notes in an approved format. Sample note formats are available as listed in Subsection 106.01. Furnish all survey notes at least weekly.

Survey and establish controls within the tolerances shown in Table 152-1. The construction survey and staking work may be spot-checked for accuracy, and unacceptable portions of work may be rejected. Resurvey rejected work, and correct work that is not within the tolerances specified in Table 152-1. Acceptance of the construction staking does not relieve the Contractor of responsibility for correcting errors discovered during the work and for bearing all additional costs associated with the error.

Start work only after staking for the affected work is accepted.

Compute and furnish calculations supporting pay quantities. Measure quantities within the tolerances shown in Table 152-2.

All field notes, pay notes, and supporting documentation become the property of the Government upon completion of the work.

Support parking lot and access road prism excavation quantities according to Subsection 204.16 **(a)(1)***(a)*. Adjust parking lot and access road prism excavation quantities for volume changes resulting from slope stake variations. See Subsection 152.03**(c)**, Slope stakes and references.

Remove and dispose of all flagging, lath, stakes, and other staking material after the project is complete. Remove visible portions of brushes if used to mark grade finishing stakes.

152.03 Survey and Staking Requirements. Amend as follows:

(b) Parking Lot and Access Road cross-sections. Add the following:

Do not take roadway cross-sections unless required for volume adjustments according to Subsection 204.16**(a)(1**)*(a)*.

Add the following:

(m) Asphalt paver reference line. Set adequate horizontal control points or reference lines for asphalt concrete paver as specified in Subsection 401.13.

Add the following to Table 152-1.

Table 152-1
Construction Survey and Staking Tolerances
(continued)

Staking Phase	Horizontal	Vertical
Asphalt paver reference line	±2 inches	—

Added Table:

Table 152-2
Measurement Tolerances

Pay Unit	Horizontal	Vertical
Acre	1.0 feet or 1:100 whichever is greater	—
Cubic Yard	0.2 foot or 1:500 whichever is greater	0.3 foot or 1:333 whichever is greater
Linear Foot	0.2 foot or 1:500 whichever is greater	—
Square Foot	0.1 feet or 1:1000 whichever is greater	—
Station	1.0 feet or 1:1000 whichever is greater	—

Payment

152.06 Delete the second paragraph and substitute the following:

Payment for lump sum items will be prorated based on the progress of the work under this Section.

03USC03/15/07

Section 153.— CONTRACTOR QUALITY CONTROL

Delete the text of this Section and substitute the following:

Description

153.01 This work consists of obtaining samples for Contractor quality control testing, performing tests for Contractor quality control, providing inspection, and exercising management control to ensure that work conforms to the contract requirements. See FAR Clause 52.246-12 Inspection of Construction.

Do not submit documentation or plans previously submitted and accepted under a separate task order unless there is a change of personnel or work specific features requiring an amendment to the accepted plan.

Construction Requirements

153.02 Personnel Qualifications. Furnish a Quality Control Manager with at least one year of experience managing highway construction quality control or quality assurance programs and meeting one of the following requirements:

(a) A Bachelor of Science degree from a four year program in civil engineering, civil engineering technology, construction management, or construction engineering;

(b) 2 years experience as a superintendent of a road or highway construction firm;

(c) A level four highway construction or highway materials NICET certification; or

(d) 5 years experience as a highway construction inspection or materials quality control supervisory technician.

Do not designate Superintendents, foremen, Traffic and Safety Supervisors**,** or project testing technicians as the Quality Control Manager, alternate Quality Control Manager, or quality control inspectors.

153.03 General. Provide a quality control system that plans, performs, and documents quality control activities.

Primary contact for quality control issues will be the Quality Control Manager or quality control staff.

Provide a Quality Control Manager on-project during work with the authority to stop work not in compliance or cease work that will result in non-compliance with contract requirements.

Identify an alternate in the Quality Control Manager's absence. An alternate may not act for a period greater than one (1) day unless approved by the CO.

Submit names and qualifications of the Quality Control Manager and any alternate to the CO for approval 14 days before start of work.

Furnish additional quality control personnel (inspectors, testers, reviewers, and clerical assistants) as needed to complete the work specified in this Section. Provide names and qualifications of additional personnel to the CO 14 days before start of work.

153.04 Quality Control Plans. Provide quality control plans for selected work features. The acceptance of a plan does not relieve the Contractor from complying with all other contract requirements. Additional quality control efforts may be required to provide effective implementation.

(a) Development. Develop quality control plans for the following work features:

- Construction Survey and Staking (Section 152);
- Clearing and Grubbing (Section 201);
- Removal of Structures and Obstructions (Section 203);
- Excavation and Embankment, sloping, shaping, and finishing (Section 204);
- Placed Riprap (Section 251);
- Aggregate Courses (Sections 312);
- Asphalt Pavement (Sections 431);
- Reinforced Rigid Pavement (Section 501)
- Drainage Structures (Section 602);
- Curb and Gutter (Section 609);
- Water Systems (Section 611);
- Sidewalks (Section 615);
- Gate (Section 619);
- Topsoil (Section 624);
- Permanent Traffic Control (Section 633, 634);
- Temporary Traffic Control (Sections 156, 635);
- Signal, lighting, and electrical systems (Section 636);
- Roadside Development (Section 646).

Use form WFLHD 471M *Contractor Quality Control Plan* worksheet to prepare the quality control plan for each work feature. An electronic version of the form is available at http://www.wfl.fha.dot.gov/other/it/forms.

Complete the first three columns on the WFLHD 471M and submit to the CO for acceptance at least 7 days before commencing work. Address the following activities:

(1) Review contract requirements, plans and specifications independently and with construction supervisory staff;

(2) Check and verify submittals, plans, and materials certifications meet contract requirements and submit to the CO for approval. Provide statement and signature of verification according to Subsection 106.03;

(3) Check site conditions for constructability, including staging, disposal and storage areas. Verify materials delivered to the site conform to accepted materials certifications, submittals, plans and contract requirements.

(4) Review construction staking to assure accuracy and sufficiency for each work feature;

(5) Provide an operational work plan. Include a brief written narrative of the work activity for the feature describing methods, locations, crews, and equipment used to complete the work;

(6) Conduct pre-work meetings. Review contract requirements with construction crew, foremen, and Government personnel before beginning work. Provide an overview of the operational work plan;

(7) Ensure construction methods will result in the end product meeting the contract requirements.

Include the following in the plan for selected work features as a supplement to the sampling and testing requirements located at the end of each Section:

- the process to ensure the completed feature of work conforms to contract requirements;
- the inspection or testing, and frequency, to ensure the process remains valid or work is being performed according to the established process;
- the action(s) taken if the inspection or testing reveals the work is not meeting contract requirements.

Perform corrective actions as needed.

(8) Provide immediate on-site presence to communicate status of work to FHWA and Contractor personnel and for quality control issue resolution;

(9) Verify completed work meets contract requirements. Submit a WFLHD 470 *Notification of Completion of Work* according to Subsection 153.06 as required. An electronic version of the form is available at http://www.wfl.fha.dot.gov/other/it/forms**.**

Revise quality control plans when personnel, activities, or processes change or when deficiencies occur in the work.

The CO may request additional quality control plans for work features not listed under (a) Development when completed work does not conform to contract requirements or an effective quality control process is lacking.

(b) Implementation. Implement quality control activities as described in the accepted plan. Do not begin a work feature until the plan is approved by the CO and a pre-work meeting is held.

(1) QC Reports - As quality control activities 153.04**(a)(1)** through **(9)** on WFLHD 471M are completed; report inspections, measurements, testing activities, corrective actions, and discussions that verify the work meets contract requirements. Provide narrative and original support data. Document findings such as deficiencies found in the work. Describe corrective actions, adjustments to frequency of quality control activities, and method or process changes to correct and eliminate future deficiencies. Provide reports daily to the CO or as specified in the quality control plan. Include the following certification signed by the Quality Control Manager:

"I certify the information contained in this record is accurate and all work documented herein complies with the requirements of the contract. Any exceptions to this certification are documented as a part of this record."

(2) Notification of Completion of Work - Certain work must be approved by the CO. Submit a completed WFLHD 470 when work is ready for inspection by the Government according to Subsection 153.06.

(c) Post-Work Quality Control. As quality control activities 153.04**(a)(1)** through **(9)** are performed, complete the last column of WFLHD 471M. Maintain and update the worksheet and make available to the CO upon request. Provide the completed worksheet and attachments to the CO within one day of substantially completing the work feature.

153.05 Quality Control Sampling and Testing. Provide sampling and testing as listed at the end of each Section and defined in the quality control plan.

Testing of trial samples may be required to demonstrate testing competence.

Sample and split samples according to AASHTO or other procedures acceptable to the CO. Allow the CO the opportunity to witness all sampling. Immediately perform splits when required. Deliver the Government's portion of the sample or split sample in an acceptable container suitable for shipment. Label all samples with the following information:

- Project number;
- Source of material;
- Pay item number;
- Sample number;
- Date sampled;
- Time sampled;
- Location sample taken;
- Name of person sampling;
- Name of person witnessing sampling; and
- Type of test required on sample.

Provide the following documentation:

(a) Quality Control Test Results. Report test results on forms containing all sample information required by this Subsection. Attach work sheets, used to determine test values, to the test result forms when submitted.

(b) Control Charts. Maintain linear control charts that identify the project number, contract item number, test number, each test parameter, the upper and/or lower specification limit applicable to each test parameter, and test results. Use the control charts to document the variability of the process, identify production and equipment problems, and identify potential pay factor adjustments. Make corrections to the process when problems are evident. Post charts at the Contractor's project testing lab and on site.

153.06 Government Quality Assurance Inspection. Submit form WFLHD 470 when the following work is ready for inspection:

(a) Allow 1 working day for the following work to be inspected.

(1) Survey and staking (field stakes and notes). Provide survey notes for the following:

(a) Control points – before disturbing original control points;

(b) Clearing limits – before starting clearing and grubbing operations;

(c) Culverts – before starting excavation.

(2) Construction work.

(a) Sub grade – before placing pavement structure;

(b) Any layer of pavement structure requiring hubs – before placing next layer; and

(c) Structural excavation – before backfilling.

(b) Allow 1 working day (except as noted) to inspect the following work. Do not continue work on items listed below until receipt of WFLHD 470 indicating the work will not be inspected, the work was inspected and no deficiencies were found, or unless authorized by the CO. Work delayed in excess of the inspection period will be evaluated according to FAR Clause 52.242-14 Suspension of Work.

(1) Forms and reinforcing steel – before placing concrete.

153.07 Acceptance. Contractor quality control will be evaluated under Subsections 106.02 and 106.04 based on the demonstrated ability of the Contractor's quality control system to ensure work meets the contract requirements.

If the Government's testing and inspection (quality assurance) indicate the Contractor's quality control system is ineffective or the plans are not being followed; make immediate improvements to correct inadequacies. Furnish notification in writing of improvements and modifications to the system.

A maximum of 10 percent of the total progress payment amount will be retained and affected project work may be stopped if a quality control plan is not accepted, the plan is not being followed, or work does not meet contract requirements.

Measurement

153.08 Measure the Section 153 items listed in the bid schedule according to Subsection 109.02.

Payment

153.09 The accepted quantities, measured as provided in Subsection 109.02 and above, will be paid at the contract price per unit of measurement for the Section 153 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

Payment for the lump sum item will be prorated based on the total work completed for this Section. Submit for approval a percentage value for each quality control plan to be used in determining the lump sum payment.

03USC09/14/07

Section 154.— CONTRACTOR SAMPLING AND TESTING

Construction Requirements

154.02 Sampling. Amend as follows:

Add the following to the first paragraph:

When samples are required at the Vancouver Laboratory, send to:

Material Section
Western Federal Lands Highway Division
610 East Fifth Street
Vancouver, Washington 98661

If samples are sent other than normal delivery vendors, call 360.619.7747 or 360.619.7592 before delivery. Deliveries will be accepted from 7 a.m. to 2:30 p.m. PT (Monday - Friday).

Access to the government complex is controlled, check-in is required at the main building entrance located on East Fifth Street. Directions will be given for delivery of samples.

Add the following to the second paragraph:

Provide the required cylinder molds.

Add the following:

The sampling frequencies and reporting times are listed in the individual sections ordering the work. See Subsections 501.03, for additional sampling and testing requirements.

Payment

154.07 Delete the text of the fifth paragraph and substitute the following:

Payment for all or part of this item may be retained, if Government verification testing invalidates the Contractor testing or the CO determines that documentation of sampling and testing is not adequate.

03USC12/21/06

Section 155.— SCHEDULES FOR CONSTRUCTION CONTRACTS

Delete this Section and substitute the following:

Description

155.01 This work consists of scheduling and monitoring all construction activities. Follow the requirements of FAR Clause 52.236-15, Schedules for Construction Contracts.

Construction Requirements

155.02 General. Prepare a construction schedule according to Subsection 155.03. Submit 3 paper copies and one electronic copy of the initial construction schedule within 7 days after Contract Award. In case of discrepancy, the paper version will govern over the electronic version of the schedule.

Show completion of work within the contract time.

Allow 2 days for acceptance or rejection of the schedule. If rejected, submit a revised schedule within 2 days. Do not begin work, except mobilization, without an accepted construction schedule.

Use the accepted initial construction schedule as the baseline for the first construction schedule update.

A maximum of 10 percent of the total progress payment amount will be retained if an accepted schedule is not received within 5 days after the Notice to Proceed is issued.

155.03 Construction Schedule. A construction schedule is a Critical Path Method (CPM) schedule and a written narrative. Include the following:

(a) A CPM schedule including the following:

(1) A title page or header block with the contract number, task order number, project number, project name, Contractor name, current fixed completion date, date of submittal, and submittal number;

(2) Show activity descriptions. Define and code activities to the contract pay items. Include activities for submittals, submittal reviews, fabrication, and deliveries. Do not include activities for continuous, non-critical items such as flagging, traffic control, QA/QC, etc;

(3) Show activity durations. Break activities into subtasks such that no activity duration exceeds 30 calendar days. Break longer activities into two or more activities distinguished by location or some other description;

(a) Show early start and finish dates;

(b) Show late start and finish dates;

(c) Show total float and free float;

(d) Show predecessors;

(e) Use a time scale to graphically show the work scheduled for performance;

(f) Show the sequence and interdependence of all activities; and

(g) Identify the critical path.

Float is a shared commodity and is not for the exclusive use of the contractor or the Government. Either party has the full use of float until it is depleted.

(b) A written narrative stating the basis and assumptions underlying the schedule including:

(1) Describe work to be done within each activity including the type and quantity of equipment, labor, and materials to be used;

(2) Describe planned production rates by pay item quantities (e.g. cubic yards of roadway excavation per day);

(3) Describe the number of work days per week, holidays, number of shifts per day, and number of hours per shift. Include all calendars used in the schedule module.

(4) Estimate periods during which an activity is idle or partially idle. Include beginning and end dates;

(5) Describe expected and critical delivery dates for equipment or material that can affect timely completion of the project; and

(6) Identify the Vendor, Supplier, or Subcontractor to perform an activity. State assumptions made in scheduling their work.

155.04 Schedule Updates. Review the construction schedule to verify or adjust; start dates of activities underway and finish dates of completed activities; remaining duration of uncompleted activities; planned start and finish dates and durations; and proposed logic. Inform the CO of all changes.

Submit three copies of an updated construction schedule for acceptance when:

(a) A delay occurs in the completion of a critical (major) activity;

(b) A delay occurs which causes a change in a critical activity;

(c) The actual prosecution of the work is different from that represented on the current construction schedule;

(d) There is an addition, deletion, or revision of activities caused by a contract modification; or;

(e) There is a change in the schedule logic.

Show completion of work within the contract time.

Allow 2 days for approval or rejection of the schedule. If rejected, submit a revised schedule within 2 days.

Use the approved initial or previous construction schedule as the baseline for the current construction schedule update.

A maximum of 10 percent of the total progress payment amount will be retained if an acceptable schedule is not received within 3 days of one of the events listed above.

155.05 Records. Submit a list of all records and documents that track progression of work. Indicate who will be responsible for maintaining the records and where the records will be located.

Provide the following documents:

(a) Notification of Completion of Work. Submit a completed WFLHD 470 *Notification of Completion of Work* when work is ready for inspection by the Government according to Subsection 153.06.

(b) Construction Operations Report. For each day of work, submit a completed "*Contractor's Daily Record of Construction Operations"* (Form WFLHD 465) or an approved alternate form within one day of the work being performed.

> *"I certify that the information contained in this record is accurate, and that all work documented herein complies with the requirements of the contract. Any exceptions to this certification are documented as a part of this record."*

For an electronic version of the form go to:

http://www.wfl.fha.dot.gov/other/it/forms/wflhd465A.pdf**.**

155.06 Acceptance. Construction schedules, records, and documents will be evaluated under Subsection 106.02.

Measurement

155.07 Measure the Section 155 items listed in the bid schedule according to Subsection 109.02.

Payment

155.08 The accepted quantities will be paid at the contract price per unit of measurement for the Section 155 pay item listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

Progress payments for construction schedule will be paid as follows:

(a) 25 percent of the item amount, not to exceed 0.5 percent of the original contract amount, will be paid after the construction schedule is accepted.

(b) Payment of the remaining portion of the lump sum will be prorated based on the total work completed.

03USC04/07/06

Section 156.— PUBLIC TRAFFIC

Construction Requirements

156.03 Accommodating Traffic During Work. Amend as follows:

Delete the first paragraph and substitute the following:

Accommodate traffic according to the contract traffic control plan, MUTCD, Section 635, this Section, and the separate traffic control task order. The Contractor may submit an alternate traffic control proposal. Submit alternate traffic control proposals according to Subsection 104.03 for acceptance at least 15 days before intended use.

Add the following:

Accommodate public traffic as follows:

(a) Allow emergency traffic and Glacier National Park snow plowing equipment through Going-to-the-Sun Road without delay at all times.

(b) Accommodate public vehicle and pedestrian traffic according to Subsection 105.04 and the following:

(1) Accommodate pedestrian access for National Park Service employees between the St. Mary Visitor Center and adjacent Entrance Station at all times. Be advised that one lane at the Entrance Station may be blocked off during construction to allow for NPS employee parking.

(2) Coordinate the timing of the culvert installation under the Going to the Sun Road with the CO to minimize traffic impacts. Coordinate lane closures with CO 7 days prior to scheduled work. Notify the CO in writing, two weeks prior to nighttime traffic delays. Do not set-up traffic control or perform work associated with nighttime traffic delays until approved by the CO.

(3) Maintain access to Logan Pass from the East Entrance unless weather related road closure occur at the Park's discretion.

(4) Provide barrier and trail closed signage at St Mary Campground for the trail accessing the Visitor Center from start of construction until the completion date.

156.04 Maintaining Roadways During Work. Amend as follows:

Delete the text of paragraph **(c)** and substitute the following:

(c) Snow removal to facilitate the work is the Contractor's responsibility. Prior to snow removal activity, submit a snow removal plan for approval by the CO. Snow removal to provide public access is the responsibility of the Park and will be performed at the Park's discretion. Provide Park snow plow and maintenance crews access along Going to the Sun Road after initial spring snow plow operations have moved beyond the project limits. Allow emergency traffic though the along Going to the Sun Road without delay at all times.

Add the following:

(g) The Park will provide snow removal as follows:

(1) Within the project limits, snow will be plowed as part of the Park's normal snow removal operations, providing one or more of the following conditions apply:

(a) The existing surfacing has not been removed.

(b) At least 2 inches of hot asphalt concrete pavement have been placed.

(2) Outside the project limits, snow will be plowed according to the normal road opening priority schedule. There are no fixed opening dates due to variable snow conditions.

156.07 Nighttime Operation. Amend as follows:

Delete the first paragraph of the Subsection.

Add the following:

Perform construction operations in accordance with Subsections 107.10 and this Section.

03USC12/13/05

Section 157.— SOIL EROSION CONTROL

Construction Requirements

157.13 Maintenance and Cleanup. Delete the third paragraph and substitute the following:

Remove sediment from erosion control measures prior to removal. Remove and dispose of erosion control measures according to Subsection 203.05.

In areas that are being revegetated, removal of temporary erosion control devices will be completed under subsequent projects or task orders.

Section 158.— WATERING FOR DUST CONTROL

Construction Requirements

158.03 General. Add the following:

Water may be obtained from the fire hydrant at the Visitor Center.

03USC06/04/07

Section 203.— REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Description

203.01 Add the following:

This work also consists of the following:

- Removing drainage pans;
- Removing and traffic salvaging signs;
- Removing and salvaging shuttle signs, and their components.

Construction Requirements

203.03 Salvaging Material. Add the following:

Maintain regulatory, informational, and warning signs in place until removal is necessary for construction.

203.04 Removing Material. Delete the text of this Subsection and substitute the following:

(a) General. Saw cut sidewalks, curbs, pavements, and structures when partial removal is required.

Construct structurally adequate debris shields to contain debris within the construction limits. Do not permit debris to enter waterways, travel lanes open to public traffic, or areas designated not to be disturbed.

Raze and remove all buildings, foundations, pavements, sidewalks, curbs, fences, structures, and other obstructions interfering with the work and not designated to remain.

Where part of an existing culvert is removed, remove the entire culvert upstream from the removal. The remaining downstream culvert may be left in place if no portion of the culvert is within 4 feet of the subgrade, embankment slope, or new culvert or structure; and the culvert ends are sealed with concrete.

Remove structures and obstructions in the roadbed to 3 feet below subgrade elevation. Remove structures and obstructions outside the roadbed to 2 feet below finished ground or to the natural stream bottom.

Abandon existing manholes, inlets, catch basins, and spring boxes according to Subsection 604.07.

Except in excavation areas, backfill and compact cavities left by structure removal with backfill material to the level of the finished ground. Backfill excavated areas according to Subsection 209.10. Compact backfill according to Subsection 209.11.

(b) Concrete removal by mechanical impact methods. Saw cut ¾ inch deep along all boundaries of repair areas.

Use power-driven hand tools to remove existing concrete with the following restrictions:

(1) Do not use jack hammers heavier than 30 pounds.

(2) Do not operate jack hammers and mechanical chipping tools at an angle in excess of 45^{o} from the surface of the slab.

(3) Do not use chipping hammers heavier than nominal 15-pound class to remove concrete from beneath reinforcing bar.

Where the bond between existing concrete and reinforcing steel is destroyed, remove all concrete adjacent to the steel to provide at least ¾-inch clearance for the new concrete to bond to the steel.

Use hand tools (hammers and chisels) to remove final particles of concrete or to achieve the required depth.

After removal of deteriorated and unsound concrete, sandblast all exposed structural steel, reinforcing steel, and concrete surfaces that will be in contact with repair material. Remove all rust and foreign material. Clean the sound concrete surface by flushing with a high-pressure water jet or oil-free compressed air.

(c) Reinforcing steel. Do not cut or damage reinforcing steel designated to remain in place. Repair or replace all damaged or severely deteriorated bars.

Clean all exposed reinforcing steel that is to remain in place. Remove all rust and corrosive products, including oil, dirt, concrete fragments, laitance, loose scale, and other coatings that may destroy or inhibit the bond with new concrete.

If cleaned reinforcing steel will be exposed for more than 7 days, protect the steel from corrosion and contamination. If the steel becomes corroded or contaminated, clean the steel immediately before the concrete pour.

203.05 Disposing of Material. Amend as follows:

Delete paragraph **(a)** and substitute the following:

(a) Remove from the Project. Legally dispose of concrete, asphalt pavement not reused, wood and other unsuitable material outside of the Park boundaries.

Delete paragraphs **(b)** and **(c)**.

03USC01/01/04

Section 204.— EXCAVATION AND EMBANKMENT

Construction Requirements

204.06 Roadway Excavation. Delete the text of this Subsection and substitute the following:

Excavate as follows:

(a) General. Do not disturb material and vegetation outside the construction limits.

Excavate material suitable for backfill or other purposes in a sequence that permits the placement of the excavation directly into its final position or in stockpiles for subsequent placing.

Use caution when excavating adjacent to existing structures. Take all necessary precautions to prevent damage to the structures.

Shape to drain and compact the work area to a uniform cross-section at the end of each day's operations. Eliminate all ruts and low spots that could hold water.

Excavate to subgrade or the depth specified in the plans, whichever is deeper.

(b) Earth cuts. Scarify earth cuts to 6 inches below subgrade within the roadbed limits. Compact the scarified material according to Subsection 204.11.

(c) Pervious pavement structure subgrade. Excavate to the line, grade, and elevations indicated on the plans. Do not compact the subgrade or subject the area to excessive construction equipment prior to placing the geotextile and permeable aggregate course. Use equipment capable of excavation without compacting the subgrade material. Finish the subgrade to within ±0.10 feet from staked line and grade elevation. Upon acceptance of the subgrade, immediately begin installation of geotextile according to Section 207.

(d) Do not conserve topsoil from excavation and embankment.

204.14 Disposal of Unsuitable or Excess Material. Add the following to the first paragraph:

Comply with Subsections 107.10, 107.11**(c)**, and all applicable local, State, and Federal laws.

Measurement

204.16 Add the following to paragraph **(a)(1)***(a)* Roadway prism excavation:

Use the volume shown in the plan column on the summary of quantities sheet of the plans. The volume is subject to adjustments resulting from changes to slope stakes. See Subsection 152.03**(c)**, Slope stakes and references.

Section 207.— EARTHWORK GEOTEXTILES

Material

207.02 Add the following:

The earthwork geotextile under the asphalt section and concrete drive pad shall be Type II-B (non-woven).

207.04A Pervious Pavement Structure Application. (Added Subsection.)

Prepare the subgrade according to Subsection 204.06**(c)**. Do not compact the subgrade.

Place the non-woven geotextile smooth and free of tension, stress, or wrinkles. Fold or cut the geotextile to conform to curves. Prior placed fabric shall overlap fabric to be placed next a length in accordance with manufactures' recommendations. Overlap the geotextile a minimum of 2 feet at the ends and sides of adjoining sheets, or sew the geotextile joints according to the manufacturer's recommendations. Secure the geotextile a minimum of 4 feet outside the storage bed and take steps necessary to prevent runoff or sediment from entering the storage bed. Hold the geotextile in place with pins, staples, or piles of cover material.

Install the coarse stone aggregate bed, and choker aggregate course, according to Section 312.

Upon completion of the choker aggregate course, fold the geotextile back along edges of the storage bed to prevent sediment from entering. Maintain the geotextile buffer until all bare soil adjacent to the parking facility is stabilized and vegetated.

03USC06/04/07

Section 209.— STRUCTURE EXCAVATION AND BACKFILL

Measurement and Payment

209.13 Amend as follows:

Delete the fourth paragraph and substitute the following:

Foundation fill ordered by the CO will be measured, paid for according to the method of measurement, and agreed price established in the Contract Modification authorizing the work.

Add the following to the Table 209-1:

Table 209-1
Sampling and Testing Requirements

Material or Product	Type of Acceptance (Subsection)	Characteristic	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
Excavation	Measured and tested for conformance (106.04)	Elevation and dimensions specified	Field measured Tolerance: 1:2500 Horizontal (No greater than 0.05') & 0.05' Vertical from reference stakes	Each foundation	Installation	_	Prior to beginning next phase of related work

03USC10/04/07

Section 251.— RIPRAP

Material

251.02 Add the following to the materials list:

Geotextile, Type II-B (non-woven)	712.01

Construction Requirements

251.04 Placed Riprap. Amend as follows:

Delete the second paragraph of this Subsection and substitute the following:

Place riprap on a prepared surface to form a well-graded mass.

Place riprap to its full thickness in one operation to avoid displacing the underlying material. Do not place riprap material by methods that cause segregation or damage to the prepared surface. Place or arrange individual stones by mechanical or hand methods to obtain a blanket with a random appearing surface.

Delete Table 251-1 and substitute the following:

Table 251-1
Sampling and Testing Requirements

Material or Product	Type of Acceptance (Subsection)	Characteristic	Category	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
Riprap (705.02)	Measured and tested for conformance (106.04)	Apparent specific gravity & absorption	—	AASHTO T 85	1 per material type	Source of material	Yes	Before using in work
		Coarse durability index	—	AASHTO T 210	"	"	"	"

03USC01/01/04

Section 305.— AGGREGATE-TOPSOIL COURSE

Description

305.01 Delete the text of this Subsection and substitute the following:

This work consists of furnishing and placing an aggregate-topsoil course on a prepared shoulder or other prepared surface.

Material

305.02 Delete the text of this Subsection and substitute the following:

Conform to the following Subsection:

Aggregate-topsoil	703.20
Water	725.01

Construction Requirements

305.04 Mixing, Placing, and Compacting. Delete the text of this Subsection and substitute the following:

Furnish a mixture of 70±10 percent aggregate and 30±10 percent topsoil by volume with sufficient water for compaction.

Mix the components into a uniform mixture. Spread the mixture on the prepared surface in a uniform layer. Shape the mixture to the line, grade, and cross-section. Remove all clods and stones greater than 2 inches in diameter.

Uniformly compact the mixture so that it does not exhibit heaving, pumping, rutting, or shearing. Compaction tests may be waived by the CO if acceptable compaction is demonstrated.

Remove all material from the pavement surface upon completion.

305.05 Acceptance. Delete the text of this Subsection and substitute the following:

See Table 305-1 for sampling and testing requirements.

Aggregate-topsoil material will be evaluated under Subsection 106.03. Placement of material will be evaluated under Subsection 106.02 and 106.04.

Table 305-1
Sampling, and Testing Requirements

Material or Product	Type of Acceptance (Subsection)	Characteristic	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
Aggregate-topsoil	Measured and tested for conformance (106.04).	Moisture density	AASHTO T 99, Method C (1)	1 per soil blend	Production output or stockpile	_	36 hours
		Compaction	AASHTO T 310 or other approved procedures	1 per 4000 yd^2	In-place	_	End of shift
		Line, grade and cross section	Subsection 305.04 Tolerance: Line and grade: 1:2500 horizontal. (No greater than 0.1') and ±0.25' vertical. Cross section: ±5% of plan dimension	1 for each 20 yd^3 or fraction thereof	Shoulder or other prepared surfaces	_	End of shift

(1) Minimum of 5 points per proctor.

10/05/07

Section 312.— PERMEABLE AGGREGATE COURSE (Added Section)

Description

312.01 This work consists of constructing one or more courses of aggregate on a prepared surface as part of a pervious pavement structure.

Material

312.02 Conform to the following Subsections:

Stone storage bed and choker aggregate	703.20
Water	725.01

Construction Requirements

312.03 General. Prepare the surface on which the aggregate course is placed according to Section 204.

312.04 Placing and compacting. End dump the permeable aggregate course onto the geotextile from the edge of the geo-textile or from previously placed material. Do not operate equipment directly on the geotextile. Spread the end-dumped pile of stone aggregate maintaining a lift thickness of 8 inches. Lightly compact and seat the stone aggregate with rubber-tired or nonvibratory smooth drum rollers. Avoid sudden stops, starts, or turns of the construction equipment. Fill all ruts from construction equipment with additional stone material. Do not regrade ruts with placement equipment. Place stone storage aggregate to the grades indicated in the plans.

Place choker aggregate course evenly over the finished surface of the stone storage bed to the grades indicated in the plans. Compact the choker aggregate course with rubber-tired or nonvibratory smooth drum rollers to provide a stable paving surface.

312.05 Surface Tolerance. Finish the surface of the stone storage bed to within ±0.10 feet from staked line and grade elevation.

Finish the surface of the choker aggregate course to within ±0.05 feet from staked line and grade elevation.

Correct all defective areas by loosening the material, adding or removing material, reshaping, and compacting.

312.06 Maintenance. Maintain the aggregate course to the correct line, grade, and cross-section by blading, watering, rolling, or any combination thereof until placement of the next course. Correct all defects according to Subsection 312.06.

312.07 Acceptance. See Table 312-1 for sampling and testing requirements and the acceptance quality characteristic category.

Aggregate gradation will be evaluated under Subsection 106.04. Other aggregate quality properties will be evaluated under Subsections 106.02 and 106.04.

Construction of permeable aggregate course courses will be evaluated under Subsections 106.02 and 106.04.

Preparation of the surface on which the aggregate course is placed will be evaluated under Section 204.

Measurement

312.08 Measure the Section 312 items listed in the bid schedule according to Subsection 109.02 and the following as applicable.

Payment

312.09 The accepted quantities will be paid at the contract price per unit of measurement adjusted according to Subsection 106.05 for the Section 312 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

Table 312-1
Sampling and Testing Requirements

Material or Product	Type of Acceptance (Subsection)	Characteristic	Category	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
Aggregate source quality (703.20)	Measured and tested for conformance (106.04 & 105)	LA abrasion (coarse)	—	AASHTO T 96	1 per type & not less than 5 per source of material [1]	Source of material	Yes, when requested	Before using in work
		Sodium sulfate soundness loss (course & fine)	—	AASHTO T 104	"	"	"	"
		Durability index (coarse & fine)	—	AASHTO T 210	"	"	"	"
		Accelerated weathering	—	WFLHD-DMSO	"	"	"	"

Table 312-1 (continued)
Sampling and Testing Requirements

Material or Product	Type of Acceptance (Subsection)	Characteristic	Category	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
Stone storage bed & choker aggregates	Measured and tested for conformance (106.04)	Gradation	—	AASHTO T 27 & T 11	1 per 1000 tons	Processed material before incorporating in work	Yes	4 hours
		Fractured faces	—	ASTM D 5821	"	"	"	"
	Visual Inspection (106.02)							
		Density	—	As approved by the CO	1 per 500 tons	In-place	—	Before placing next layer

(1) Furnish a minimum of five reports, but not less than one report per rock type for each source. Reports must be dated within 1 year of intended use. Obtain samples representative of aggregates being furnished. Include rock type and sample location on test reports.

10/05/07

Section 431.— PERMEABLE HOT ASPHALT CONCRETE PAVEMENT (ADDED SECTION)

Description

431.01 This work consists of constructing one or more courses of permeable hot asphalt concrete pavement.

Permeable hot asphalt concrete pavement aggregate grading is designated as shown in Table 703-4A.

Permeable hot asphalt concrete pavement roughness type is designated in Subsection 431.16.

Asphalt binder grade is designated as SHRP PG 64-28.

Antistrip additive is designated as type 3 (lime).

Material

431.02 Conform to the following Subsections:

Aggregate	703.07A
Asphalt Cement	702.01
Antistrip additive	702.08
Mineral Filler	725.05

Construction Requirements

431.03 Composition of Mixture (Job-Mix Formula). Furnish mixtures of aggregate, asphalt binder, and additives that meet the applicable material requirements and the appropriate design parameters in Table 431-1 and are capable of being placed and compacted as specified.

Table 431 - 1
Open-Graded Asphalt Concrete Mixture Requirements

Design Parameters	
Immersion - Compression (AASHTO T 165 and AASHTO T 167) Retained strength, minimum %	50%
Draindown at Design Asphalt Content (Standard WFLHD Method of Testing for Asphalt Content for Permeable hot asphalt concrete pavement)	60% - 90%

(a) General. Locate and select a test laboratory with the proper facilities capable of performing the appropriate tests and designing the required job-mix formula.

Submit written job-mix formulas for approval at least 21 calendar days before production.

(b) Job-Mix formula requirements. Do not begin production until the job-mix formula has been verified by the Government. Along with the proposed job-mix formula, sign and submit a certification of compliance prepared by the testing laboratory which signifies that the proposed job-mix formula meets the requirements of the contract.

(1) Furnish a job-mix formula containing all information necessary to support the design of each component of the open-graded asphalt mixture.

(2) Include the following data submitted on Form FHWA-1607. See Subsection 106.01 for availability of the form.

(a) Percent of asphalt to nearest 0.01% (by weight of total mix).

(b) Percent of asphalt to nearest 0.01% (by weight of total aggregate).

(c) Maximum specific gravity and unit weight (AASHTO T 209).

(d) Dust-asphalt ratio (the percent of material passing the U.S. Standard No. 200 sieve, as determined by AASHTO T 27 and AASHTO T 11, divided by the percent of asphalt, calculated by weight of mix).

(e) Aggregate gradation target values to nearest 0.1% (Table 703-4B). Target value for percent passing each sieve size for the aggregate blend.

(c) Material. Submit with the proposed job-mix formula samples of the following:

(1) Aggregate and mineral filler.

(a) The proposed percentage of each stockpile to be used and the average gradation of each stockpile (AASHTO T 27 and AASHTO T 11). Aggregate samples when combined according to the Contractor's recommended stockpile percentages shall be within the gradation band defined by the target values plus or minus the allowable deviation for each sieve or the samples will not be considered representative.

(b) Specific gravity and absorption values of fine aggregates (AASHTO T 84) and values of coarse aggregates (AASHTO T 85).

(c) Representative samples for each aggregate stockpile. A total of 800 pounds of aggregate shall be provided. For multiple stockpiles, the quantity of material provided for each stockpile shall be proportional to the Contractor's proposed blending rates.

(d) When mineral filler is proposed, a 20 pound sample.

(e) Results of aggregate quality tests for Contractor selected sources.

(2) Asphalt binder.

(a) Five 1-gallon samples of the asphalt binder to be used in the mixture.

(b) Complete analysis for the asphalt binder including the specific gravity value and applicable temperature-viscosity curves.

(c) Material safety data sheets.

(3) Antistrip additives. If part of the job-mix formula:

(a) 10 pounds of lime antistrip additive;

(b) Name of product*;*

(c) Manufacturer;

(d) Material safety data sheet; and

(e) Blend rate.

(4) Asphalt mixtures. When applicable, the location of all commercial mixing plants to be used. A job-mix formula is needed for each plant.

(d) Verification. The CO will review and may perform design verification testing. If a job-mix formula is rejected or a change in material source occurs, submit a new job-mix formula as described above.

(e) Changes to job-mix formula. Changes to an approved job-mix formula require approval before production. Up to 21 calendar days will be required to evaluate a change. Approved changes in target values will not be applied retroactively for acceptance or payment.

The CO will deduct all job-mix formula evaluation costs incurred as a result of the following:

(1) Contractor-requested changes to the approved job-mix formula.

(2) Contractor requests for additional job-mix formula evaluations.

(3) Additional testing necessary due to the failure of a submitted job-mix formula.

431.04 Mixing Plant. Use mixing plants conforming to Subsection 401.04.

431.05 Pavers. Use pavers conforming to Subsection 401.05.

431.06 Surface Preparation. Prepare the surface according to Subsection 312.

431.07 Weather Limitations. Place permeable hot asphalt concrete pavement on a dry, unfrozen surface when the air temperature in the shade is above 35 °F and rising, and the temperature of the road surface in the shade conforms to Table 401-2.

431.08 Asphalt Preparation. Uniformly heat the asphalt binder to provide a continuous supply of the heated asphalt binder from storage to the mixer. Do not heat asphalt binder above 350 °F.

431.09 Aggregate Preparation. If nonliquid antistrip is used, adjust the aggregate moisture to at least 4 percent by mass of aggregate. Mix the antistrip uniformly with the aggregate before introducing the aggregate into the dryer or dryer drum. Mix with the aggregate particles to produce a uniform mixture. Use calibrated weighing or metering devices to measure the amount of antistrip and moisture added to the aggregate.

Treated aggregate may be held in stockpiles before mixing with asphalt, but the treated aggregate must be used during the same construction season in which it was produced.

For batch plants, heat, dry, and deliver aggregate for pugmill mixing at a temperature sufficient to produce a mix temperature within the approved range. Adjust flames used for drying and heating to prevent aggregate damage and contamination.

Control plant operations so the moisture content of the mix behind the paver is 0.5 percent or less according to AASHTO T 110 or FLH T 515.

431.10 Mixing. Mix aggregate and asphalt according to Subsection 401.10.

431.11 Hauling. Haul asphalt concrete mixtures according to Subsection 401.11. All loads are required to be fully covered from the time of loading until placement.

431.12 Pre-paving conference. At least 14 days before the start of paving operations, arrange for a pre-paving conference. Coordinate attendance with CO and all applicable subcontractors. Submit and prepare to discuss the following:

(a) Proposed schedule of paving operations;

(b) List of all equipment (pugmill, plant, haul, laydown, compaction, etc.) and personnel used in the production and construction of the work;

(c) Contractor quality control plan for paving and sampling and testing according to Sections 153 and 154;

(d) Acceptance procedures according to Subsections 106.04 and 401.17.

431.13 Placing and Finishing. Do not use mixtures produced from different plants unless the mixtures are produced according to the same job-mix formula and use material from the same approved sources.

Place asphalt concrete mixture at a temperature conforming to Table 401-2. Measure temperature of the mixture in the hauling vehicle just before dumping into spreader or measure it in the windrow immediately before pickup.

Place the mixture with a paver conforming to Subsection 401.05. Control horizontal alignment using a reference line. Automatically control the grade and slope for intermediate lanes from reference lines, a ski and slope control device, or dual skis. Use skis having a minimum length of 20 feet.

On areas where mechanical spreading and finishing is impractical, place and finish the mixture with alternate equipment to produce a uniform surface closely matching the surface obtained when using a mechanical paver.

The asphalt concrete mixture may be placed in 1 layer. If the mixture is placed in 2 layers of equal thickness, offset the longitudinal joint of upper layer at least 6 inches from the joint in the lower layer. Make the longitudinal joint in the top layer along the centerline of 2-lane roadways or at the lane lines of roadways/parking areas with more than 2 lanes. Place a tack coat on the surface between layers.

431.14 Compacting. Furnish steel-wheeled non-vibratory rollers for compaction. Thoroughly and uniformly compact the asphalt surface by rolling until the entire surface has obtained at least 4 coverages by the rollers. Perform additional coverages as directed to obtain thorough compaction and finish rolling of the pavement.

Along forms, curbs, headers, walls, and other places not accessible to the rollers, compact the mixture with alternate equipment to obtain thorough compaction and a uniform finish.

431.15 Joints, Trimming Edges, and Clean Up. Perform this work according to Subsection 401.15.

431.16 Pavement Roughness Measure the roughness of the final paved surface after final rolling, within 14 days of completing roadway paving, according to the designated type below.

(a) Type V pavement roughness (straightedge measurement). Use a 10-foot metal straight edge to measure at right angles and parallel to the centerline. Defective areas are surface deviations in excess of ¼ inch in 10 feet between any two contacts of the straightedge with the surface. Correct all defective areas identified. Obtain approval for the proposed method of correction.

431.17 Acceptance. Permeable hot asphalt concrete pavement mixture will be evaluated under Subsection 106.04.

Asphalt binder will be accepted under Subsection 106.04.

Emulsified asphalt for tack coat will be accepted under Subsection 106.03

Antistrip additives and mineral filler will be accepted under Subsection 106.03.

Permeable hot asphalt concrete pavement construction will be accepted under Subsections 106.04.

See Table 431-2 for Sampling and Testing Requirements.

Measurement

431.18 Measure the Section 431 items listed in the bid schedule according to Subsection 109.02.

Payment

431.19 The accepted quantities, measured as provided in Subsection 109.02 and above, will be paid at the contract price per unit of measurement for the Section 431 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

Table 431 - 2
Sampling and Testing Requirements

Material or Product	Type of Acceptance (Subsection)	Characteristic	Category	Test Methods Specifications	Tolerance	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time	Remarks
Aggregate Source:										
Aggregate source quality	Measured and tested for conformance (Subsection 106.04)	Los Angeles Abrasion (coarse)	—	AASHTO T 96	Subsection 703.07	5 for each undeveloped source or 1 for each commercial source	Source of materials	Yes when requested	Prior to production	Not required when using government provided source
		Sodium Sulfate Soundness Loss (coarse and fine)	—	AASHTO T 104	"	"	"	"	"	"
		Durability Index (coarse and fine)	—	AASHTO T 210	"	"	"	"	"	"
		Accelerated Weathering	—	WFLHD-DMSO	"	"	"	"	"	"
Aggregate Production:										
Aggregates	Measured and tested for conformance (Subsection 106.04)	Gradation and Fractured Faces	—	AASHTO T 11 and T 27; ASTM D 5821	—	1 for each 6 hours of production but not less than 2 for each day	Flowing aggregate stream (bin or belt discharge) or off of conveyor belt	Yes when requested	End of shift	If aggregate is separated into two or more stockpiles, then sample and test each of the stockpiles at the minimum sampling frequency
		Sample for job-mix formula verification	—	Subsection 431.03	—	1 for each aggregate stockpile as applicable, when requested	Flowing aggregate stream (bin or belt discharge) or off of conveyor belt	—	21 days prior to approval of job-mix formula	Tested by Government
Asphalt Binder:										
Asphalt Binder, SHRP Grade PG 64-28	Measured and tested for conformance (Subsection 106.04)	Quality	—	Subsection 702.01	—	1 sample per each 30 tons or fraction thereof but not less than 3 samples per asphalt grade used.	From line between storage tank and asphalt plant	Provide one duplicate consecutive sample – 2 one quart containers	—	Sampled by contractor and tested by government
Production Startup (control strip):										
Asphalt concrete mixture	Measured and tested for conformance (Subsection 106.04)	Mix Temperature	—	—	—	First load and as determined by CO thereafter	Hauling vehicle prior to dumping or windrow prior to pickup	—	Immediately upon completion of test	—
		Gradation	—	AASHTO T 11 and AASHTO T 27	—	At least 1 sample per control strip	Cold feed prior to entering dryer	Yes	4 hours	—
		Fractured Faces	—	ASTM D 5821	—	At least 1 sample per control strip	"	Yes	4 hours	—

Table 431 - 2
Sampling and Testing Requirements

Material or Product	Type of Acceptance (Subsection)	Characteristic	Category	Test Methods Specifications	Tolerance	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time	Remarks
Asphalt Concrete Mixture Production:										
Hot asphalt concrete pavement	Measured and tested for conformance (Subsection 106.04)	Placement temperature	—	—	—	First load and as determined by CO thereafter	Hauling vehicle prior to dumping, or windrow prior to pickup	—	Immediately upon completion of measurement	Temperature is not accepted statistically
	Measured and tested for conformance (Subsection 106.04)	Asphalt Content	—	—	± 0.5% of design value	1 per day	Storage tank	—	"	Calculate asphalt content by measuring amount of asphalt used and amount of mixture produced
Hot asphalt concrete pavement	Measured and tested for conformance (Subsection 106.04)	Aggregate Gradation:	—	AASHTO T 11 and AASHTO T 27	—	1 per 700 tons	Cold feed prior to entering dryer	Yes	4 hours	—
		Fractured Faces	—	ASTM D 5821	—	1 per 700 tons	"	Yes	4 hours	—
Finished Roadway:										
Hot asphalt concrete pavement	Measured and tested for conformance (Subsection 106.04)	Width	—	Subsection 431.13	± 0.10 ft	Determined by the CO	Final course after final rolling has been completed	No	—	—
		Smoothness (approach roads, turnouts, parking areas, etc.)	—	Straightedge measurements	Subsection 431.16(a)	Designated sites determined by the CO		—	When requested	

03USC02/20/08

Section 501.— RIGID PAVEMENT

Construction Requirements

501.05A Sampling. (Added Subsection.)

Take samples according to AASHTO T 141 from specified loads. Composite samples are not required. Provide cylinder molds. Make at least 4 cylinders for compressive strength tests. Label each concrete cylinder mold with the project name, project number, the cylinder number, date molded, and location of the sample. Mark one cylinder "7 day test", one cylinder "14 day test", and two cylinders "28 day test". Labeling on the lid only is not allowed. Use a permanent ink or paint marker to ensure that the label remains legible throughout the curing period.

After initial curing, furnish and maintain a suitable environment to cure cylinders according to WFLHD T 23-94. Provide suitable containers to protect and continue the curing of cylinders while transporting. Deliver cylinders to the Vancouver Laboratory according to Subsection 154.02. Cylinders will be tested at 7, 14, and 28 days from the date molded. Ensure cylinders arrive at the Vancouver Laboratory at least 1 day before the designated test date.

Delete Table 501-3 and substitute the following:

Table 501-3
Sampling and Testing Requirements

Material or Product	Type of Acceptance (Subsection)	Characteristic	Category	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
Aggregate source quality (703.02)	Measured and tested for conformance (106.04 & 105)	Quality	—	AASHTO M 80	1 per material type	Source of material	Yes	Before producing
Concrete composition (mix design)	Measured and tested for conformance (106.04 & 105)	All	—	Subsection 552.03	1 per mix design	Source of material	Yes	Before producing
Produced aggregate (fine & coarse)	Measured and tested for conformance (106.04)	Gradation	—	AASHTO T 27 & T 11	1 per day	Flowing aggregate stream (bin, belt, discharge conveyor belt, or stockpile)	Yes, when requested	Before batching
		Fineness modulus	—	AASHTO T 27	—	"	"	"
		Moisture test	—	AASHTO T 225	—	"	"	"

Table 501-3 (continued)
Sampling and Testing Requirements

Material or Product	Type of Acceptance (Subsection)	Characteristic	Category	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
Structural concrete (552.09(b)(3))	Measured and tested for conformance (106.04)	Unit mass	—	AASHTO T 121	1 per load	Point of discharge	—	Upon completing tests
		Air content	—	AASHTO T 152 or AASHTO T 196	"	"	—	"
		Slump	—	AASHTO T 119	"	"	—	"
		Temperature	—	Field measured	"	"	—	"
	Statistical (106.05)	Compressive strength(1)	II	WFLHD T 23-94(2) & AASHTO T 22	1 set per 25 m^3 but not less than 1 per day	Discharge stream at point of placing	See Subsection 501.05A	—
Rigid pavement	Statistical (106.05)	Type A smoothness	I	See Subsection 501.12	See Subsection 501.12	See Subsection 501.12	—	Upon completing paving
	Measured and tested for conformance (106.04)	Type B smoothness	—	See Subsection 501.12	See Subsection 501.12	See Subsection 501.12	—	"
	Statistical (106.05)	Pavement thickness(3)	II	AASHTO T 24	1 core per 2000m^2	In place after sufficient hardening	—	72 hours

(1) A single compressive strength test result is the average result from 2 cylinders cast from the same load and tested at 28 days.

(2) See FLH Field Materials Manual, Appendix B.

(3) Thickness is not a statistically evaluated parameter unless concrete pavement payment is by the square yard.

03USC07/26/05

Section 601.— MINOR CONCRETE STRUCTURES

Construction Requirements

601.07 Acceptance. Amend as follows:

Delete the text of this Subsection and substitute the following:

Material for minor concrete structures will be evaluated under Subsections 106.02 and 106.03.

Excavation and backfill will be evaluated under Section 209.

Construction of minor concrete structures will be evaluated under Subsections 106.02 and 106.04.

Delete Table 601-2 Sampling and Testing Requirements.

03USC09/22/06

Section 609.— CURB AND GUTTER

Construction Requirements

609.01 Delete the text of this Subsection and substitute the following:

This work consists of constructing ribbon curb, raised curb and monolithic curb.

609.05 Concrete Curb or Curb and Gutter. Delete this Subsection and substitute the following:

Perform work according to Section 601. Cast in-place the gutter, using forms that extend for the full depth of the concrete.

(a) Contraction Joints. Construct gutter in sections of uniform 10-foot lengths. Construct contraction joints 1/8-inch wide.

(b) Expansion Joints. Form expansion joints where new concrete gutter joins existing gutters or paved ditches, and at intervals of 60 feet, using 3/4-inch expansion joint filler.

Finish the concrete smooth and even. Broom finish parallel to the gutterline according to Subsection 552.14**(c)(2)**. Leave forms in place for 24 hours or until the concrete has set sufficiently so forms can be removed without damaging the gutter.

03USC09/22/06

Section 615.— SIDEWALKS AND DRIVE PADS

Description

615.01 Add the following:

This work also consists of furnishing and installing detectable warning panels and thickened edge sidewalks.

Material

615.02 Add the following to the material list:

Detectable warning panels	725.32

Construction Requirements

615.04 Concrete Sidewalks, Drive Pads, and Medians. (a) Joints. Delete the text of this Subsection and substitute the following:

(1) Expansion joints. Construct at intervals not exceeding 20 feet. Use 3/4-inch thick preformed expansion joint filler for the full depth of the joints. Use joint sealant conforming to Subsection 712.01**(a)(5),** when joints are to be sealed.

(2) Construction joints. Use joint sealant conforming to Subsection 712.01**(a)(5)**, when joints are to be sealed.

615.04A Detectable Warning Panel. (Added Subsection.)

Submit a representative sample of the detectable warning panel at least 7 days before installation to the CO for approval. The dimension of the sample will be as shown on the plans. Label the sample with the name, address, and phone number of the manufacturer.

Conform to ACI 305 "Standards on Hot Weather Concreting" and ACI 306 "Standards on Cold Weather Concreting" when storing and placing panels.

Furnish three copies of the manufacturers installation instructions to the CO.

Install detectable warning panels according to the manufacturer's installation instructions and the following:

(a) Recess the panels below the finished grade before initial set of the sidewalk concrete.

(b) Square edges of panels butted together. Base of truncated dome should be flush with adjacent surfaces to permit proper drainage and eliminate tripping hazards between surfaces.

(c) Finish surrounding concrete flush with panels. Edge around panels with 1/8-inch radius edger.

615.07 Acceptance. Add the following:

Material for detectable warning panels will be evaluated under Subsection 106.03.

Installation of detectable warning panels will be evaluated under Subsection 106.02.

03USC01/01/04

Section 622.— RENTAL EQUIPMENT

Description

622.01 Delete the text of this Subsection and substitute the following:

This work consists of furnishing and operating equipment for the construction work as ordered by the CO and listed below. Work under this Section does not include equipment time used to perform work provided for under any other pay item shown in the bid schedule. The work anticipated under this Section includes:

(a) Perform minor landscaping;

(b) Traffic control labor, including moving traffic control devices; and

(c) Final grading.

Construction Requirements

622.02 Rental Equipment. Delete the text of the first paragraph and substitute the following:

Furnish and operate the following equipment:

Number of Units	Type of Equipment
1	Dump Truck, 8 Cubic Yard minimum capacity
1	Backhoe loader, 2 Cubic Feet minimum rated capacity bucket, 12-inch width
1	Chain saw

Submit the model number and serial number for each piece of equipment before use. Make equipment available for inspection and approval before use.

03USC01/01/04

Section 623.— GENERAL LABOR

Description

623.01 Delete the text of this Subsection and substitute the following:

This work consists of furnishing workers and hand tools for the work listed in Subsection 622.01.

03USC01/01/04

Section 633.— PERMANENT TRAFFIC CONTROL

Description

633.01 Add the following:

This work also includes furnishing and installing snow pole holders.

Materials

633.02 Add the following to the materials list:

Paint for steel structures	708.04
Paint for timber structures	708.02
Snowpole holders	717.06

Construction Requirements

633.04 Supports. Add the following:

Provide posts for sign installations conforming to the size and dimensions shown on the plans. Fabricate signposts from steel or wood as indicated in the plans. Apply two coats of paint to all exposed surfaces of posts and hardware according to Subsections 708.02 and 708.04.

633.05 Panels. Delete the text of the first paragraph and substitute the following:

Fabricate sign panels from aluminum. Use the following type of retro-reflective sheeting for the following signs:

(a) Use Type III for all signs.

For permanent sign panels, use type L-1 letters, numerals, arrows, symbols, and borders. Cut panels to size and shape and drill or punch all holes. Make panels flat and free of buckles, warps, dents, cockles, burrs, and other defects.

Paint the backside of all sign panels. Paint with a prime coat and a finish coat according to Subsection 708.04. Perform work according to section 563.

633.06A Snowpole Holder. (Added Subsection.)

Construct and place snowpole holders as shown in the plans or at locations determined by the CO. Provide two caps for each snowpole holder.

633.08 Acceptance. Add the following:

Snowpole holders will be evaluated under Subsections 106.02 and 106.03.

Measurement

633.09 Add the following:

(d) When a sign system is measured by the square yard, measure the nominal dimensions of all sign panels.

Do not measure steel sleeves, sleeve caps, concrete, and bed course for snowpole holders.

03USC06/22/07

Section 635.— TEMPORARY TRAFFIC CONTROL

Construction Requirements

635.17 Pavement Patch. Add the following:

Remove all cold asphalt mix from patches less than two years old as directed by the CO and replace with hot asphalt mix before placing hot asphalt on succeeding lifts.

Measurement

635.26 Delete the sixth paragraph and substitute the following:

Measure flaggers, for each hour a person is actually flagging. Round portions of an hour up to the half hour. Measure time in excess of 40 hours per week at the same rate as the first 40 hours.

Section 636.— ACCESS CONTROL GATE

Delete the text of this Section and substitute the following:

Description

636.01 The work consists of installing access control gates and loop detectors at the parking lot exit.

Material

636.02 Conform to the following Section and Subsections:

Concrete	601
Bed Course	704.09
Access Control Gate	725.30
Traffic Loop Detectors	725.31

Construction Requirements

636.03 Gates. Install access control gates and traffic loop detectors as shown on the plans and as directed by the CO.

Provide and construct the concrete mounting pads as recommended by the manufacturer, and as shown on the plans. Ensure that the bolt patterns match that of the gate mechanism.

Excavate and backfill according to Section 209. Place bed course material in layers not exceeding 4 inches in compacted thickness.

Perform concrete work according to Section 601.

636.09 Acceptance. Material gates will be evaluated under Subsections 106.02 and 106.03.

Excavation and backfill for gates will be evaluated under Section 209.

Concrete work for gates will be evaluated under Section 601.

Measurement

636.10 Measure the Section 619 items listed in the bid schedule according to Subsection 109.02.

Payment

636.11 The accepted quantities will be paid at the contract price per unit of measurement for the Section 619 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

Section 646.— ROADSIDE DEVELOPMENT (ADDED SECTION)

Description

646.01 This work consists of constructing a bus shelter and the installing government furnished wayside exhibits, and all necessary hardware.

646.02 Definitions. The following definitions will be used for this Section:

(a) Architecturally Exposed Structural Steel: Structural steel elements conforming to the Architecturally Exposed Structural Steel section in the AISC, *"Code of Standard Practices for Steel Buildings and Bridges"*. All structural steel in the bus shelter shall meet the requirements for Architecturally Exposed Structural Steel.

Material

646.03 Conform to the following Sections and Subsections:

Concrete	601
Bed Course	704.09
Fasteners	716.07
Hardware	716.02
Nonshrink grout	725.22**(c)**
Paint	563, 725.01
Reinforcing steel	554
Roofing materials	725.01
Structural Steels	717.01
Structural Glued Laminated Decking	716.05
Structural glued laminated timber	716.04
Treated structural timber and lumber	716.03
Untreated structural timber and lumber	716.01
Windows	725.01
Wood Structural Panels	716.06
Galvanized Coatings	717.07
Quality Control	153

Construction Requirements

646.04 Submittals. Prepare and submit drawings according to Subsection 104.03.

(a) Windows.

(1) Steel frames. Submit complete shop drawings for all steel frames, including material thickness or gauge and anchor types. Include details of each frames type, elevations for each frame, details of construction, location and installation requirements, and details of joints and connections.

(2) Glass. Furnish the following:

(a) Manufacturer's product literature and specifications for each glass and sealant type.

(b) Samples (12 inch by 12 inch) of glass type.

(c) Samples (12 inches in length) of gaskets, setting strips and tape, or other glazing accessories when requested by the CO. Include sample of typical heat welded corner when specified.

(b) Timber and lumber. Furnish the following:

(1) Installation instructions and fabrication data for laminated roof wood decking.

(2) Errection drawings indicating species, grade, surface, finishing treatment, pattern, net thickness, net width, attachments, and end joint locations (lay-up).

(3) Samples showing the range of variation to be expected in appearance of wood decking. Provide 24-inch samples of the species, grade, surface, finish treatment, and pattern to be used.

(4) Proposed power-actuated fasteners and nails. Submit product literature & samples.

(c) Structural Steel. Show fabrication of components. Include the following:

(1) Details of cuts, connections, splices, camber, holes, and other pertinent data;

(2) Embedment drawings;

(3) Welds using standard AWS symbols that distinguish between shop and field welds. Show size, length, and type of each weld; and

(4) Type, size, and length of anchor bolts;

(5) Finish;

(6) Qualifications of welders and welding inspectors.

Submit erection drawings defining the location of each assembly or piece within the structure. Provide sufficient details to describe all field welding.

(d) Roof shingles. Submit manufacturer's product literature and specifications. Provide a one shingle sample.

(e) Wayside Exhibits. Place wayside exhibits as shown on the plans and as directed by the CO.

Provide and construct the concrete mounting pads as recommended by the manufacturer, and as shown on the plans. Ensure that the bolt patterns match that of the the wayside exhibits.

Excavate and backfill according to Section 209. Place bed course material in layers not exceeding 4 inches in compacted thickness.

Perform concrete work according to Section 601

646.05 Storing and Handling of Materials. Store and handle materials to preserve quality and fitness for work.

(a) Store copper shingles on pallets according to manufacturer's recommendations. Protect from staining. Store underlayment rolls on end.

(b) Store steel window frames in upright position unless otherwise recommended by the manufacturer. Place in a dry, well ventilated, protected area, and in a manner to prevent warp or other physical damage. Protect from contact with ground or other materials subject to causing rust or other corrosive action.

(c) Do not deliver glass to project until ready for installation.

(d) Store materials under cover and protected from weather and contact with damp or wet surfaces. Provide for air circulation within and around stacks and under temporary coverings. Deliver decking in protective wrapping. Stack wood decking with surfaces that are to be exposed in the final work protected from exposure to sunlight. Damaged or water stained members will be rejected where decking is exposed as a finish.

646.06 General. Survey according to Section 152. Excavate and backfill according to Section 209.

Construct concrete footings and walls in according to Section 601.

Furnish material and workmanship conforming to the standards of:

- AISC, *"Code of Standard Practices for Steel Buildings and Bridges"*;
- Glass Association of North America (GANA) Glazing manual, FGMA Sealant Manual, and SIGMA glazing recommendations;
- ANSI/ASTM D16, Definitions of Terms Relating to Paint, Varnish, Lacquer, and Related Products.
- AWS D1.1 for welding procedure specifications, tolerances, appearance, quality of welds, qualification of welders, qualifications of welding inspectors, and for methods used in correcting welding work,

646.07 Structural Steel. All structural steel and all fasteners including anchor bolts shall be hot-dip galvanized.

Provide temporary shores, guys, braces, and other supports during erection to keep structural steel secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent structural steel, connections, and bracing are in place, unless otherwise indicated.

Clean concrete bearing surfaces of bond-reducing materials, and roughen surfaces before setting base plates. Clean bottom surface of base plates.

Set base plates for structural members on wedges, shims, or setting nuts as required.

Comply with AWS D1.1 for welding procedure specifications, tolerances, appearance, and quality of welds and for methods used in correcting welding work. Grind butt welds flush. Grind or fill exposed fillet welds to smooth profile. Dress exposed welds.

Snug-tighten anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of base plate before packing with grout.

Promptly pack grout solidly between bearing surfaces and base plates to eliminate voids. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.

Maintain erection tolerances of Architecturally Exposed Structural Steel within AISC's "Code of Standard Practice for Steel Buildings and Bridges".

Align and adjust various members forming part of complete frame or structure before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that will be in permanent contact with members. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.

Level and plumb individual members of structure.

Remove erection bolts on welded, architecturally exposed structural steel; fill holes with plug welds; and grind smooth at exposed surfaces.

Do not use thermal cutting during erection.

Do not enlarge unfair holes in members by burning or using drift pins. Ream holes that must be enlarged to admit bolts.

All welding shall be done by AWS certified welders. All welding inspection shall be done by AWS QC-1A certified welding inspectors. All welds shall be visually inspected.

646.08 Structural Glued Laminated Decking. Provide factory-glued decking produced by an AITC or APA-EWS licensed firm. Use a manufacturer with at least five years consistent experience in the successful lamination and fabrication of decking.

(a) Fabrication. Fabricate decking in lengths for simple span lay-up. Predrill decking for lateral spiking to adjacent units. After fabricating and surfacing decking, apply a saturation coat of penetrating sealer.

Immediately after end-cutting each member to final length, apply a saturation coat of end sealer to ends and other cross-cut surfaces, keeping surfaces flood-coated for not less than 10-minutes.

After fabricating, sanding, and end-coat sealing, apply a heavy saturation coat of penetrating sealer on surfaces.

(b) Installation. Install laminated wood decking to comply with manufacturer's written instructions and with end joints located according to lay-up indicated.

Attach each course of glued-laminated wood decking at each support with two 0.145" diameter power-actuated fasteners that are long enough to penetrate the steel support. Head of power-actuated fasteners shall not penetrate the upper surface of the decking by more than ¼". Slant-nail each course of glued-laminated wood decking to the tongue of the adjacent course at 30 inches o.c. and within 12 inches of the end of each unit. Stagger nailing in adjacent courses 15 inches. Use 8d x 1½ nails for 2 x decking.

Rest ends on supports. Lay with pattern facing the exposed side.

Provide temporary shores, guys, braces, and other supports during erection to keep structural steel secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads.

646.09 Windows.

(a) Steel frames. Fabricate frames according to applicable provisions of ANSI A250.8, except where more stringent requirements are specified. Fabricate exterior frames from galvanized steel sheet. Construct frames with 5/8-inch integral, double rabbeted stop, and full 45º mitered and full-welded corners. Butt-join and face-weld vertical and horizontal mullions, and grind smooth. Unless otherwise indicated on the Drawings, fabricate frames with standard 2-inch face width and depths nominally equal to wall thickness. Knocked-down (KD) type frames are not acceptable.

Unless otherwise indicated, fabricate frames for glazing with removable stops on the leeward "interior" side of the frame.

Clean and fill frames. Apply not less than one shop coat of baked-on rust-inhibitive metallic primer complying with the applicable requirements of ANSI A224.1. Apply primer to both faces (interior and exterior) of frames.

Install frames plumb, square, and vertical, and in proper alignment with surrounding construction. Set frame into position and brace as required to hold plumb, square, and rigidly in place. Install no less then 4 anchors per jamb beginning 6 inches above bottom of frame and spacing at a maximum interval of 22 inches.

(b) Glass. Clean glazing channels, stops, and rabbets to receive glazing materials. Remove obstructions and substances which would impair the work or interfere with bond of sealants and adhesives. Prime surfaces as recommended by sealant or adhesive manufacturer. Mask or otherwise protect surfaces adjacent to installation of sealants.

Comply with applicable recommendations of GANA Glazing Manual.

Set glazing to accurately fit frames and provide equal bearing along entire length of each pane. Secure glazing with clips unless detailed with beads or stops. When glazing is to be placed with metal stops, set glazing in full bed of glazing putty or vinyl strip.

Place manufacturing waves, if apparent in panes, in horizontal orientation.

Provide safety glass at locations required by Local, State, or National codes or glazing ordinances.

Provide setting blocks of size to fit sill rabbet. Locate 1/4 of glass width from each corner. Set in thin course of heel-bead compound, if any.

Except where continuous gaskets are used for glazing glass sizes larger than 48 united inches (length plus width), provide spacers on both faces of glass at maximum 24-inch intervals and no less than 12 inches from corners, inside and out, of thickness equal to sealant width. Place spacers opposite one another. Provide ¼ inch minimum bite of spacers on glazing.

To prevent exudation of sealant, provide filler rods at heels of glazing channels.

Install pressurized tapes and gaskets to protrude slightly out of channel to eliminate dirt and moisture pockets. Miter cut and bond ends together at corners in manner to prevent pull out.

Remove all labels and thoroughly clean glass. Do not use abrasive cleaners or implements likely to damage or scratch glass or reflective coatings.

646.10 Roofing.

(a) Sheathing. Coordinate plywood sheathing installation with installation of materials installed over sheathing so sheathing is not exposed to precipitation or left exposed at end of the workday when rain is forecast. Comply with applicable recommendations in APA Form No. E30K, *"APA Design/Construction Guide: Residential & Commercial"*. Comply with "Code Plus" installation provisions in the referenced guide.

(b) Underlayment. Clean roof sheathing of debris. Place underlayment when sheeting is dry and free of moisture. Install two layers of felt underlayment horizontally over entire roof surface. Lap each course not less than 1 inches"; within each layer, lap edges not less than 2 inches, lap end joints not less than 4 inches, and lap not less than 6 inches over ridges, or as recommended by the roofing manufacturer. Use sufficient fasteners to secure underlayment until shingles are applied.

(c) Copper Shingles and Ridge Caps. Do not install shingles on wet surface. Install when air temperature is greater than 40º F.

Install shingles and ridge caps according to manufacturer's recommendations.

646.11 Acceptance. Bus shelter materials will be evaluated under Subsection 106.02 and 106.03.

Acceptance of wayside exhibits will be evaluated under Subsection 106.02.

Construction of the bus shelter will be evaluated under Subsection 106.02 and 106.04.

Measurement

646.12 Measure the Section 646 items listed in the bid schedule according to Subsection 109.02.

Payment

646.13 The accepted quantities, measured as provided in Subsection 109.02 and above, will be paid at the contract price per unit of measurement for the Section 646 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

03USC06/04/07

Section 703.— AGGREGATE

703.07A Permeable hot asphalt concrete pavement Aggregate. (Added Subsection.)

Aggregate for permeable hot asphalt concrete pavement consists of hard, durable particles or fragments of crushed stone or crushed gravel.

Size and grade the aggregate to conform to the target values established in Table 703-4A. All the aggregate shall pass a sieve with 25 millimeter square openings as determined by AASHTO T 27 and T 11.

(a) Coarse aggregate (retained on the No. 4 sieve). Furnish hard, durable crushed stone or crushed gravel that conforms to the following:

(1) Los Angeles abrasion, AASHTO T 96	35% max.
(2) Sodium sulfate soundness loss (5 cycles), AASHTO T 104	12% max.
(3) Fractured faces, ASTM D 5821	90% min.
(4) Durability index (coarse), AASHTO T 210	35 min.
(5) Accelerated weathering of aggregate by use of Dimethyl Sulfoxide (DMSO), WFLHD Standard Test Method	12% max. loss

Do not use aggregates known to polish or carbonate aggregates containing less than 25 percent by mass of insoluble residue when tested according to ASTM D 3042.

(b) Fine aggregate (passing a No. 4 sieve). Furnish natural sand, stone screenings, or a combination thereof conforming to AASHTO M 29 including sulfate soundness and the following:

(1) Durability index (fine), AASHTO T 210		35 min.
(2) Sodium sulfate soundness loss (5 cycles)	AAHSTO T 104	12% max.

Table 703 - 4A
Aggregate Gradation
Target Values and Allowable Deviations for
Permeable hot asphalt concrete pavement

Sieve Size	Target Values	Allowable Deviation[(1)] (percent)
3/4 inch	100	n/a
1/2 inch	85 – 100	n/a
3/8 inch	55 – 75	5
No. 4	10 – 25	5
No. 8	5 – 10	2
No. 200	0 – 2	2

Establish target values (TV) as part of the job-mix formula. Establish aggregate gradation target values (Percent by Mass Passing U.S. Standard Sieves - AASHTO T 27 and T 11) to the nearest 0.1 percent.

(1) Allowable deviations plus or minus from established target values.

703.20 Permeable and choker aggregate. (Added Subsection.)

(a) General. Furnish hard, durable particles or fragments of crushed stone or crushed gravel conforming the following:

(1) Los Angeles abrasion, AASHTO T 96 — 50% max.

(2) Durability index (coarse), AASHTO T 210 — 35 min.

(3) Durability index (fine), AASHTO T 210 — 35 min.

(4) Sodium sulfate soundness loss (5 cycles), AASHTO T 104 — 12% max.

(5) Accelerated weathering of aggregate by use of Dimethyl Sulfoxide (DMSO), WFLHD Standard Test Method — 12% max. loss

(6) Fractured faces, ASTM D 5821 — 50% min.

(7) Free from organic matter and lumps or balls of clay

Do not use material that breaks up when alternately frozen and thawed or wetted and dried.

(b) Permeable aggregate course. In addition to **(a)** above, conform to the following:

(1) Gradation — Table 703-16

Table 703-16
Permeable aggregate course Gradation

Sieve Size	Percent by Mass Passing Designated Sieve (AASHTO T 27 & T 11)
2-1/2 inch	100
2 inch	90 - 100
1-1/2 inch	35-70
1 inch	0-15
1/2 inch	0-5

(c) Choker aggregate. In addition to **(a)** above, conform to the following:

(1) Gradation Table 703-17

Table 703-17
Choker Aggregate Gradation

Sieve Size	Percent by Mass Passing Designated Sieve (AASHTO T 27 & T 11)
1-1/2 inch	100
1 inch	95 - 100
1/2 inch	25 - 60
No. 4	0-10
No. 8	0-5

03USC10/12/07

Section 704.— SOIL

704.02 Bedding Material. Delete the text of this Subsection and substitute the following:

Furnish a well graded, free draining material free of excess moisture, muck, frozen lumps, roots, sod, or other deleterious material conforming to the following:

(a) Maximum particle size	1/2 inch or half the corrugation depth, whichever is smaller
(b) Material passing No. 200 sieve, AASHTO T 27 and T 11	10% max.

03USC09/11/06

Section 705.— ROCK

705.02 Riprap Rock. Add the following:

Match riprap to the color and characteristics of the material excavated from the surrounding area.

Do not haul or place riprap until color and material characteristics are approved by the CO.

03USC01/01/04

Section 708.— PAINT

708.02 Paint for Timber Structures. Delete the text of this Subsection and substitute the following:

Paint will conform to Columbia Brand Wood Finishes, 08-201-XX, Semi-transparent Stain Water Repellant, Wood Protekt Color No. 8713 or approved equal.

708.04 Paint for Steel Structures. Delete the text of this Subsection and substitute the following:

Conform to the following:

(a) Prime coat for steel structures. Glidden All-purpose Metal Primer No. 5229, or approved equal.

(b) Prime coat for galvanized steel. Acrylic latex galvanized metal primer; 1.5 to 2 mils DFT conforming to MIL-P-15328 SSDC No. 27, or approved equal.

(c) Finish coat. Two (2) coats Acrylic latex exterior enamel, gloss; 1.5 to 2 mils DFT each. Paint to match park colors: St Mary Oxford Brown.

09/26/07

Section 716.— MATERIAL FOR TIMBER STRUCTURES

716.05 Structural Glued Laminated Decking. (Added Subsection.)

Furnish structural glued-laminated decking that complies with AITC 117--MANUFACTURING and the following:

(a) Species. Provide structural glued-laminated decking made from a single species as noted on the drawings.

(b) Face Grade. Custom or Supreme: Clear face is required. Occasional pieces may contain a small knot or minor characteristic that does not detract from the overall appearance.

(c) Edge Pattern. Vee grooved.

(d) Adhesive. Wet-use type complying with ASTM D 2559.

(e) End Sealer. Manufacturer's standard, transparent, colorless wood sealer that is effective in retarding the transmission of moisture at cross-grain cuts and is compatible with indicated finish.

(f) Penetrating Sealer. Water-based, transparent, penetrating wood sealer that is compatible with indicated finish.

(g) Moisture Content. Provide wood decking with 15 percent maximum moisture content at time of dressing.

716.06 Wood Structural Panels. (Added Subsection.)

Furnish either of the following materials:

(a) Plywood. Conform to *APA – The Engineer Wood Association* product standard PS-1 and Plywood Design specifications PDS. Provide Exposure 1 except where surface or edge of plywood will be exposed to weather, then use exterior grade.

716.07 Fasteners. (Added Subsection.)

Furnish fasteners conforming to the following:

(a) Furnish nails "Engineered Construction Nails" according to ASTM F1667. Threaded, hardened steel nails may be substituted for box size nails of corresponding size. Use ring shank or screw shank nails for attachment of plywood and OSB.

(b) Use Power-Driven Fasteners complying with NES NER-272.

(c) Furnish wood screws according to ASME B18.6.1. Wood screws may have cut or rolled thread wood screws meeting the requirements of ANSI/ASME Standard B18.6.1. Provide electro-galvanized or equivalent coating.

09/26/07

Section 717.— STRUCTURAL METAL

Delete this Section and substitute the following:

717.01 Quality Standards.

The following quality assurance standards shall be followed:

(a) Welding: Qualify procedures and personnel according to AWS D1.1, "Structural Welding Code—Steel.

717.02 Materials.

(a) Structural Steel Materials.

(1) Tube Steel: ASMT A500 Gr B, 46 ksi

(2) Plate and Bar: ASTM A 36

(3) Welding Electrodes: Comply with AWS D1.1 requirements, 70 Series

(b) Bolts, Connectors and Anchors.

(1) Headed Anchor Rods: ASTM F 1554, Grade 36, straight.

(a) Nuts: ASTM A 563 heavy hex carbon steel.

(b) Washers: ASTM F 436 hardened carbon steel.

(c) Finish: Hot-dip zinc coating, ASTM A 153/A 153M, Class C

(c) Galvanized Repair Paint: ASTM A 780

717.03 Fabrication

(a) Structural Steel. Fabricate and assemble in shop to greatest extent possible. Fabricate according to AISC's "Code of Standard Practice for Steel Buildings and Bridges" and AISC's "Specification for Structural Steel Buildings--Allowable Stress Design and Plastic Design Load and Resistance Factor Design Specification for Structural Steel Buildings."

(b) Architecturally Exposed Structural Steel. Comply with fabrication requirements, including tolerance limits, of AISC's "Code of Standard Practice for Steel Buildings and Bridges" for structural steel identified as architecturally exposed structural steel.

(c) Fabricate with exposed surfaces smooth, square, and free of surface blemishes including pitting, rust, scale, seam marks, roller marks, rolled trade names, and roughness.

(d) Remove blemishes by filling or grinding or by welding and grinding, before cleaning, treating, and shop priming.

(e) Thermal Cutting: Perform thermal cutting by machine to greatest extent possible. Grind smooth all thermally cut surfaces.

(f) Plane thermally cut edges to be welded to comply with requirements in AWS D1.1.

(g) Bolt Holes. Cut, drill, mechanically thermal cut, or punch standard bolt holes perpendicular to metal surfaces.

(h) Finishing: Accurately finish ends of columns and other members transmitting bearing loads.

717.04 Shop Connections

(a) Weld Connections: Comply with AWS D1.1 for welding procedure specifications, tolerances, appearance, and quality of welds and for methods used in correcting welding work.

(1) Select welding procedures, fabrication sequence, and equipment used for architecturally exposed structural steel to limit distortions to allowable tolerances. Prevent weld show-through on exposed steel surfaces.

(2) Grind butt welds flush.

(3) Grind or fill exposed fillet welds to smooth profile. Dress exposed welds.

717.05 Galvanizing

(a) Hot-Dip Galvanized Finish: Apply zinc coating by the hot-dip process to structural steel according to ASTM A 123/ A 123M.

(b) Fill vent holes and grind smooth after galvanizing.

03USC07/16/04

Section 718.— TRAFFIC SIGNING AND MARKING MATERIAL

718.14 Waterborne Traffic Paint. (g) Daylight reflectance. (Without glass beads) Delete the text of this Subsection and substitute the following:

(1) White, ASTM E 1347 oxide standard	84% relative to magnesium
(2) Yellow, ASTM E 1347 oxide standard	55% relative to magnesium

9/26/07

Section 721.— ELECTRICAL AND ACCESS GATE MATERIAL

Delete this Section and replace with the following:

721.01 Electrical Material. Conform to the following:

(a) Conduit. Conform to the following:

(1) Nonmetallic conduit and duct couplings, elbows, bends, and nipples. For above ground and underground use without concrete encasement, furnish rigid PVC, heavy wall conduit conforming to UL 651. For solvent cement to join conduit, conform to ASTM D 2564.

(2) Flexible conduit. Furnish a watertight metallic conduit conforming to UL 360, acceptable for equipment grounding. Furnish insulated throat, grounding, malleable iron watertight fittings.

(3) Conduit bodies, boxes, and fittings. Furnish watertight, galvanized steel conforming to UL 514 B.

(b) Wire and cable. Furnish 600-volt stranded copper conductors, insulation, and jackets. Label and color code the wire and cable to identify its type, size, UL symbol, and manufacturer. Conform to the following:

(1) Rubber-insulated wires and cables UL 44

(2) Thermoplastic-insulated wires and cables UL 83

721.02 BD Exit Loop Kit.

(a) Cable. Conform to the following:

(1) Type. Prefabricated Flexible Loop 6ft x 16ft with 60 ft lead-in;

(2) Conductors. Solid (per ASTM B-3) or stranded soft annealed uncoated copper (per ASTM B-8);

(3) Insulation. Polyvinyl chloride (PVC) compound to thickness required by Underwriters Laboratories for Type THHN 90°C rated:

Color Code:

2 Conductors: Black, White
3 Conductors: Black, White, Red

(4) Conductor Jacket: Heat stabilized nylon;

(5) Grounding Conductor: Uninsulated, soft annealed solid;

(6) Assembly: Individual Type THHN/THWN conductors are laid parallel with (or without) a grounding conductor it is placed in the web between insulated conductors;

(7) Temperature: 60°C wet or dry;

(8) Rating: 600V;

(9) Specifications and Standards: UL Standard 493 - Thermoplastic Insulated Underground Feeder and Branch Circuit Cables;

721.03 Access Control Gate.

(a) Gate. Conform to the following:

(1) Electrical.

Service amps: 120 VAC, 60 Hz, 20 AMPS
Connections: One utility power outlet, main power field box, main power switch with built-in circuit breaker Field Wiring: Removable terminal block assembly 24V DC unregulated

(2) Motor Characteristics.

High Torque Motor: 1/3 hp
Speed: 3600 rpm 24V DC
Starting amps: 12A (24V)
Running amps: 3.5A (24V)
Brush Life: 1-million gate cycles

(3) Gear Box characteristics.
Gear Ratio: 261:1
Torque Rating: 1,000 in-lbs.

(4) Break on Motor Characteristics.
Voltage: Operating range—10V to 24V
Holding Force: 2,000 in-lbs.

(5) Gate Arm Characteristics.
Height: 34” (86 cm) in down position
Length: 12’, (365 cm)—aluminum

(6) Environment.

Temperature: -15°F ~ 130°F (-26°C ~ 54°C)
Humidity: 10% to 90% humidity (non-condensing)

(7) Cabinet.

Heavy-duty, 14-gauge all weather steel construction with high-density polyethylene cover (Aluminum cover optional). Direct replacement footprint for other brand gates.
Dimensions: 45-1/2" H x 18" W x 18" D (116 cm x 46 cm x 46 cm)
Weight: 166 lbs. (75 kg.)
Access: Removable cover on drive mechanism (360° access)
Removable door (access to electrical connections and control box)
Finish: White (RAL #____ - NPS tan)
Heating: Optional heater available

Microprocessor Based Controller.

Gate up/normal/down switch (internal manual override)

Operational Modes: One Way with Auxiliary Gate.

Switch Selectable Features: "Extra sensory" timer: Closing loop safety "auto stop", backout timer Built-in detector socket to accept single channel (AGP-0139) or dual channel (AGP-0239) vehicle detectors. Dual channel detector shall be standard with the gate.

10/29/07

Section 725.— Miscellaneous Material

725.01A Bus Shelter (Added Subsection.)

(a) Roofing System: all Copper Shingle system

(1) Underlayment. Furnish asphalt-saturated organic felt, unperforated according to ASTM D226, Type II (No. 30) or as recommended by shingle manufacturer.

(2) Copper shingles. Furnish copper shingles of the same style and dimensions as adjacent buildings. Conform to the following:

(1) Tensile strength	48,000 psi min.
(2) Yield strength	46,000 psi min. @ 0.5% extension under load
(3) Minimum purity	99.9 %
(4) Temper	¾ hard H03
(5) Size (Exposed 14½ inches x $8^1/_8$ inches)	15 inches x $9^1/_8$ inches
(6) Weight	1.24 lbs/ft^2 min.
(7) Density	0.376 lbs/in^3 min.
(8) Thickness	0.018 inches min.

Furnish a system with concealed nailing flange and four-way interlocking shingles that can withstand winds of 110 mph minimum.

Furnish ridge caps that interlock concealing the nail flange, interlock, are adjustable to the roof angle, and have approximate exposed dimensions of 9½ inches x $7^1/_4$ inches.

(3) Fasteners. Furnish silicone bronze nails with ring barb shank, minimum head size of 3/16 inch, and of proper lengths.

(b) Windows and frames: Galvanized Hollow Metal frames and polycarbonate lites.

(1) Steel frames. Zinc-coated by hot-dip or electrolytic process according to ASTM A653. A568, A591, or A642; minimum coating class G-90. Comply with the requirements of ANSI A250.8, Level 4 (minimum 14 gage) for exterior Frames.

(2) Glass. Furnish ¼ inch thick polycarbonate sheets that is mar and graffiti resistant, can withstand temperatures from -40º F to 270º F, has a silicone hardcoat surface, non-formable, and UV resistant.

Furnish sheets conforming to the following:

(1) Compressive strength	12,500 psi min.
(2) Tensile strength	9,500 psi min.
(3) Flexural strength	13,500 psi min.
(4) Modulus of elasticity	340,000 psi min.
(5) Coefficient of thermal expansion	0.0000375º in/in/F
(6) Light transmission	88%

(3) Glazing Materials. Furnish the following:

(1) Glazing sealant. Clear silicone sealant recommend for use with polycarbonate sheeting and steel frames.

(2) Sealant primer. As recommended by sealant manufacturer.

(3) Compressible Filler Rod. Closed-cell or waterproof-jacketed rod stock of synthetic rubber or plastic foam, proven compatible with sealants used, flexible, resilient, with 5-10 psi compression strength for 25% deflection.

(4) Glazing Gaskets. Black molded or extruded neoprene of profile and hardness required, complying with ASTM D2000, 2BC 415 to 3BC 620.

(5) Glazing Tape. Closed cell, flexible, self-adhesive, non-extruding, polyvinyl chloride foam complying with ASTM D1667.

(6) Setting Blocks. Neoprene, 80-90 Shore A durometer hardness, proven compatible with sealants used.

(7) Spacers. Neoprene, 40-50 durometer hardness, proven compatible with sealants used.

(8) Cleaners, Primers, Sealers. Type recommended by sealant or gasket manufacturer.

(c) Paint. High performance coating for exterior galvanized metals. Meet manufacture's requirements for execution. Contracting officer to approve color.

(1) Intermediate Coa. High Build epoxy-polyamide coating, minimum solids content 56%

(2) Top Coat. aliphatic polyester polyurethane enamel, semi-gloss finish, minimum solids 56%

(d) Joint Sealers:

TYPE 1 SEALANT. (For joints in horizontal planes) Two-component, self-leveling urethane or polyurethane sealant complying with FS TT-S-00227E, Type I, Class A, and ASTM C920, Type M, Grade P, Class 25, custom color as selected by the Contracting Officer.

TYPE 2 SEALANT. (For joints in vertical planes) Two-component, non-sagging urethane or polyurethane sealant with a movement capability of 50% of the joint width in extension and 25% of the joint width in compression, complying with FS TT-S-00227E, Type II, Class A, and ASTM C920, Type M, Grade NS, Class 25, custom color as selected by the Contracting Officer.

BACKER ROD.

(1) Joints in Horizontal Planes: Resilient, closed cell, polyethylene foam rod designed for use with cold-applied sealants, diameter 25-50% larger than joint width, as recommended by sealant manufacturer.

(2) Joints in Vertical Planes: Flexible, compressible, non-gassing, open cell urethane foam rod designed for use with cold-applied sealants, diameter approximately 25-50% larger than joint width, as recommended by sealant manufacturer.

(3) Silicone Sealants (Vertical and Horizontal Planes): Resilient, closed cell, polyethylene foam rod designed for use with cold-applied sealants, diameter 25-50% larger than joint width, as recommended by sealant manufacturer.

BOND-BREAKER TAPE. Pressure-sensitive polyethylene tape.

PRIMER. As recommended by sealant manufacturer for particular substrate.

725.29 Reinforcing Fibers. Add the following:

Use fibrillated polypropylene fibers conforming to ASTM C 1116.

725.32 Detectable Warning Panel. (Added Subsection.)

Detectable warning panels will be prefabricated and will conform to the following:

(a) Coloring White

PERMITS

INDEX

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Montana Department of
ENVIRONMENTAL QUALITY
WATER PROTECTION BUREAU

Agency Use
Permit No.:
Date Rec'd Amount Rec'd Check No. Rec'd By

FORM
NOI

Notice of Intent (NOI)
Storm Water Discharge Associated With Construction Activity
MTR100000

The NOI form is to be completed by the owner or operator of a construction activity eligible for coverage under the Department's *General Permit for Storm Water Discharges Associated with Construction Activity*. Please read the attached instructions before completing this form. You must print or type legibly; forms that are not legible or are not complete or are unsigned will be returned. You must maintain a copy of the completed NOI form for your records.

Section A - NOI Status *(Check one):*

☑ New — No prior NOI submitted for this site.

☐ Resubmitted — Permit Number: MTR10 _____

☐ Renewal — Permit Number: MTR10 _____

☐ Modification — Permit Number: MTR10 _____ (Discuss Modification in Section I)

Section B - Facility or Site Information *(See instruction sheet.):*

Site Name: St. Mary Visitor Center
Site Location: Project is located at the East Entrance to Glacier National Park.
Nearest City or Town: St. Mary, MT County: Glacier
Latitude: 48° 44' 51" N, Longitude: 113° 26' 19" W

Is this facility or site located on Indian Lands? ☐ Yes ☑ No

Section C - Applicant (Owner/Operator) Information:

Owner or Operator Name Western Federal Lands Highway Division, FHWA
Mailing Address 610 East Fifth St.
City, State, and Zip Code Vancouver, WA 98661
Phone Number (360) 619-7700

Is the person listed above the construction project owner? ☑Yes ☐ No

Status of Applicant *(Check one)* ☑ Federal ☐ State ☐ Private ☐ Public ☐ Other (specify)

Correspondence including fee (invoice), monitoring reports, and other information shall be sent to the:

☑ Facility Contact *(Section F)* ☐ Applicant *(Section C)*

Section D - Existing or Pending Permits, Certifications, or Approvals: ☑ None

☐ MPDES	☐ RCRA
☐ PSD (Air Emissions)	☐ Other
☐ 404 Permit (dredge & fill)	☐ Other

Section E - Standard Industrial Classification (SIC) Codes:

Provide at least one SIC code which best reflects the construction activity or project described in Section H.

Code	A. Primary	Code	B. Second
1 1611	Highway and street construction, except elevated highways	2	
Code	**C. Third**	**Code**	**D. Fourth**
3		4	

Section F - Facility or Site Contact Person/Position:

Name and Title, or Position Title Terry Schumann, Environmental Protection Specialist
Mailing Address 610 East Fifth St.
City, State, and Zip Code Vancouver, WA 98661
Phone Number (360) 619-7607

Section G - Receiving Surface Water(s):

Storm Water Outfall/Discharge Locations: For each outfall, list latitude and longitude to the nearest second and the name of the receiving waters

Outfall Number	Latitude	Longitude	Receiving Surface Waters
001	48° 44' 52" N	113° 26'27" W	Unnamed ephemeral drainage, which empties into Saint Mary River.
002			
003			
004			
005			

MAP: Attach a USGS topographic quadrangle map extending one mile beyond the property boundaries of the site or activity identified in Section B depicting the facility or activity boundaries, major drainage patterns, and the receiving surface waters stated above.

Section H - Describe the Construction Activity or Project:
The project consists of modifying the existing parking lot, adding additional parking, and improving vehicle access and circulation at the St. Mary Visitor Center. See Section I below and the attached project plans for additional information.

Total Site Area (acres) approximately 4
Area of Construction Related Disturbance (acres) approximately 4
Estimated Project Start Date 04-01-2008
Estimated Project Completion Date 6-13-2008
Estimated Project Final Stabilization Date 09-30-2010

Summary of Best Management Practices (BMPs) in SWPPP:
Temporary BMPs: straw wattles, stabilized construction entrance, seeding, mulch and tackifier as needed, and a spill containment plan (see plan sheets E.1-E.6).

Permanent BMPs: placement of topsoils on slopes, seeding, mulch and tackifier as needed, permanent turf establishment, riprap energy dissipaters, vegetated drainage ditch, porous pavement on parking lots and access roads (see plan sheets E.1-E.6).

A Hazardous Spill Plan will be required prior to starting construction, stating what actions will be taken in case of a spill. This plan will also incorporate preventive measures to be implemented. Refueling and servicing equipment will not occur within 30 meters of a water body.

Section I – Supplemental Information

- The existing east and west parking lots will be re-striped and traffic islands modified or installed to provide additional parking spaces (approximately 40 cars, 4 accessible vehicles, and 18 recreational vehicles) and to improve vehicle circulation.
- The east parking lot will be expanded to accommodate approximately 46 more vehicles.
- A bus pick-up and drop-off area with associated bus shelter will be constructed near the front entrance of the visitor center to address the lack of a pick-up/drop-off area.
- A 2-way travel lane will be constructed connecting the east and west parking lots to improve vehicle circulation.
- Signs and other traffic control devices will be installed to improve vehicle circulation.
- A concrete gutter will be placed at the low area of the northwest access road to facilitate water flow during rain events, and a riprap energy dissipater will be placed at the outlet to minimize erosion (see plan sheets D.4, D.23, and E.3).
- A shallow drainage ditch will be constructed around the east side of the expanded east parking lot and a concrete round culvert will be constructed beneath the Going to the Sun Road (GTSR) near the southeast access road (see plan sheets D.12, D.19, and E.3). This swale and culvert will catch storm water and transport it to the west side of the GTSR where it will enter the existing drainage system. The swale will be revegetated with native seed and riprap energy dissipaters will be placed at the inlet and outlet of the culvert.
- The parking lots and access roads will be paved with a porous pavement to allow infiltration of storm water and minimize runoff.

Section J – Fees:

Is this project a single family residential dwelling? ☐Yes Fee is $250.00 (there is no annual fee) ☑ No

Is this a Permit Modification? ☐ Yes Fee is $450.00 ☑ No

All Other Construction Projects: To obtain the application (NOI) fee, multiply:
Total Number of Named or Perennial Receiving Surface Waters (maximum of 5) 1 x $450 x 2= $900

Section K - CERTIFICATION

Applicant Information: This form must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Applicants Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

Delegation of Signature Authority: For persons signing this NOI form on behalf of the authorized signatory identified above, the undersigned represents that he or she is authorized to sign this form on behalf of the permit applicant (owner/operator) identified in Section C. A copy of the letter of authorization, or equivalent, granting signature authority must be attached to this form.

A. Name (Type or Print)	
Terri L. Thomas	
B. Title (Type or Print)	**C. Phone No.**
Environmental Manager	360-619-7967
D. Signature	**E. Date Signed**
Terri L. Thomas	11-15-07

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form (Form NOI), a complete and signed Storm Water Pollution Prevention Plan (SWPPP), and the applicable fee to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

Montana Department of
ENVIRONMENTAL QUALITY
Brian Schweitzer, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.mt.gov

December 19, 2007

TERRY SCHUMANN
WESTERN FEDERAL LANDS HWY DIVISION
610 EAST FIFTH ST
VANCOUVER WA 98661

RE: Confirmation Letter, Notice of Intent (NOI) Number MTR102822
ST. MARY VISITOR CENTER

Dear TERRY SCHUMANN:

This letter serves as confirmation that the Department has received a complete Notice of Intent (NOI) Package on 11/19/2007. You are authorized to discharge storm water from this site in accordance with the Department's April 16, 2007 *General Permit for Storm Water Discharges Associated with Construction Activity* (General Permit) and the information provided in your NOI and Storm Water Pollution Prevention Plan (SWPPP). Receipt by the Department of a complete NOI package constitutes a full agreement by the permittee to meet and comply with all requirements in the General Permit. For administrative purposes you have been assigned permit number MTR102822. Please include this number on any future correspondence with the Department regarding this site.

Coverage under the General Permit remains in effect until the permittee submits a Notice of Termination (NOT) certifying that the site has achieved final stabilization and all applicable fees have been paid. Failure to submit a completed NOT will result in the continued assessment of annual permit fees, which must be paid by an owner or operator.

A copy of the General Permit, this Confirmation Letter, a copy of the signed NOI form, and the SWPPP must be maintained on the construction site at all times.

A violation of, or non-compliance with, any provision of the General Permit is subject to enforcement action pursuant to the Montana Water Quality Act. General Permit coverage obtained through the submittal of this NOI does not waive obligations to obtain other permits or approvals which may be required.

Should you have any questions, feel free to contact the Water Protection Bureau at (406) 444-3080.

Sincerely,

Jamesa L. Dodd

Jamesa L. Dodd
Data Control Tech
Water Protection Bureau
jdodd@mt.gov

Attachments: General Permit

Permits
Project: MT PRA-GLAC 10(28), St Mary Visitor Center Rehabilitation

MONTANA DEPARTMENT OF ENVIRONMETAL QUALITY

GENERAL PERMIT
FOR
STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY

Permit No.: MTR100000

AUTHORIZATION TO DISCHARGE UNDER THE

MONTANA POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with Montana Water Quality Act, Title 75, Chapter 5, Montana Code Annotated (MCA) and the Federal Water Pollution Control Act (the "Clean Water Act"), 33 U.S.C. § 1251 *et seq.*, persons who submit a complete Notice of Intent (NOI) package as defined in Part I, except those excluded from coverage in Part I of this permit, are authorized to discharge storm water from a construction facility or activity in accordance with the limitations, monitoring requirements, and other provisions set forth herein.

A copy of this General Permit must be kept on site at all times.

This Permit shall become effective: **April 16, 2007.**

This Permit and the authorization to discharge shall expire at midnight, **December 31, 2011.**

FOR THE MONTANA DEPARTMENT
OF ENVIRONMENTAL QUALITY

Bonnie Lovelace

Bonnie Lovelace, Chief
Water Protection Bureau
Permitting and Compliance Division

Issuance date: March 16, 2007

TABLE OF CONTENTS

PREAMBLE

The purpose of this Preamble is to provide the construction project owner/operator who submits a Notice of Intent Package for a storm water discharge associated with construction activity under the *General Permit for Storm Water Discharges Associated with Construction Activity* (General Permit) with a summary of the requirements of this General Permit.

The basic principle of the General Permit is to identify areas or activities that may contribute pollutants to state surface waters and to consider practical Best Management Practices (BMPs) to reduce such pollutants from your construction project. The degree of pollution control necessary will vary depending on the site and the situation.

The major pollutant for construction sites will be sediment discharges from increased erosion. The discharge of "significant sediment" or other pollutants from the construction project to state surface water may cause a violation of this General Permit. Adequate erosion and sediment control measures must also be used to prevent sediment discharges to riparian areas, ephemeral streams, and drainages which only periodically contain state surface water.

Other pollutants likely to be a problem at construction sites are fuels, lubricating oils, construction materials, various wastes, fertilizers, or pesticides. Managing these materials properly is a primary factor in ensuring pollutants do not reach state surface waters through storm water runoff.

In order to help characterize the construction activity, potential sources of pollutants, and BMPs to help ensure pollutants do not reach state surface waters, the owner/operator is required to develop and implement a Storm Water Pollution Prevention Plan (SWPPP). The basic requirements of the SWPPP are provided in Part IV of this General Permit.

The General Permit requires that the site reach "final stabilization" before permit coverage may be terminated. In Montana's semi-arid climate, the time necessary to achieve this "final stabilization" often requires General Permit coverage well beyond the conventional earthwork and facility construction phase to ensure vegetation or other site stabilization measures are in-place.

Coverage under this General Permit does not relieve the permittee from responsibility for compliance with any other applicable federal, state, or local law, rule, standard, ordinance, order, judgment, or decree.

PART I. COVERAGE UNDER THIS GENERAL PERMIT

A. Coverage Area

The General Permit applies to all areas of the State of Montana, except for Indian Reservations.

B. Sources Covered Under this General Permit

This General Permit covers all projects or activities which meet the definition of "storm water discharge associated with construction activity" as defined in Part VI of this permit. For determining whether coverage under this General Permit is required, the total land area of disturbance that is part of a larger common plan of development or sale must be used. Determination of the acreage of disturbance does not typically include disturbance for routine maintenance activities on existing roads where the line and grade of the road is not being altered, nor does it include the paving of existing roads.

The General Permit may also cover storm water discharges from support activities related to a construction site (e.g. concrete or asphalt batch plants, equipment staging yards, material storage areas, etc.). This is provided that:

1. The support activity is not a commercial operation serving multiple unrelated construction projects and does not operate beyond the completion of the construction activity.

2. Appropriate controls and measures are identified in the Storm Water Pollution Prevention Plan (SWPPP) for the discharge from the support activity.

C. Sources Excluded from Coverage Under this General Permit

1. The Department may deny authorization for discharge under the General Permit if the specific source filing for authorization appears unable to comply with:

   a. Effluent limitations or other terms and conditions of the permit,

   b. Water quality standards established pursuant to 75-5-301, MCA, and ARM Title 17, Chapter 30, Subchapters 5, 6, 7, and 10,

2. The following sources are excluded from coverage under the General Permit:

a. Any discharge to which the Regional Administrator has objected to in writing,

b. The facility or activity is subject to federal effluent limitation guidelines as adopted by the Montana Board of Environmental Review in ARM Title 17, Chapter 30, Subchapter 12,

c. The storm water discharge is different in degree or nature from discharges reasonably expected from sources or activities within the category described in the MPDES General Permit,

d. MPDES permit or authorization for the same operation has previously been denied or revoked,

e. The discharge sought to be authorized under a MPDES General Permit is also included within an application or is subject to review under the Major Facility Siting Act, 75-20-101, *et seq.*, MCA, or,

f. The point source is or will be located in an area of unique ecological or recreational significance. Such determination must be based upon considerations of Montana stream classifications adopted under 75-5-301, MCA, impacts on fishery resources, local conditions at proposed discharge sites, and designations of wilderness areas under 16 USC 1132 or of wild and scenic rivers under 16 USC 1274.

D. Sources seeking coverage under the General Permit after January 1, 2007

Unless excluded from coverage in accordance with Paragraph C, owners or operators of construction activities or sites that may discharge storm water to state surface waters may obtain coverage under this General Permit by submitting a complete NOI package to the Department at the address given below.

1. The complete NOI Package consists of:

a. A completed NOI form using the standard NOI form provided by the Department and signed by the appropriate signatory based on the signatory requirements stated in Part V of this General Permit.

b. A separate SWPPP (document and related plans) which has been completed in accordance with the requirements identified in Part IV of this General Permit and signed by the owner/operator in accordance with the signatory requirements stated in Part V of this General Permit.

c. The appropriate application (NOI) fee as required by ARM 17.30.201.

2. NOI Package Submittal

A signed and complete NOI form, a signed and complete SWPPP, and the required application (NOI) and annual fees must be submitted to the following address:

Department of Environmental Quality
Water Protection Bureau
P.O. Box 200901
Helena, MT 59620-0901

3. Department Processing of NOI Package

The Department will send a Confirmation Letter acknowledging the receipt of the complete Notice of Intent Package.

Incomplete or unsigned NOI submittals will be returned to the applicant and coverage under the General Permit is not effective until a complete package is received. The source is not authorized under the General Permit until a complete NOI package is received by the Department.

Receipt by the Department of the complete NOI Package constitutes a full agreement by the permittee to meet and comply with all requirements stated in this General Permit.

Coverage under the General Permit remains in effect until the permittee submits a Notice of Termination (NOT) stating that the site has achieved final stabilization and all applicable fees have been paid. The NOT form must be signed by the owner or operator or other authorized person in accordance with Part V of the General Permit. The permittee is responsible for payment of annual fees for each calendar year in which the source is covered under the General Permit.

E. Sources Covered Under the 2002 General Permit – Continuing Coverage

In order to maintain coverage under the General Permit, all sources must submit a complete NOI form and submit an application (NOI) fee (ARM 17.30.201(5) schedule I.B) by July 1, 2007. The NOI must be submitted to the Department at the address provided in Part I.D. The source is not required to submit a new or an amended SWPPP; however, a valid SWPPP must be maintained by the permittee in accordance with Part IV of this General Permit. Coverage under the General Permit will be terminated after July 1, 2007 unless a completed NOI form and fee have been received by the Department for the site.

Coverage under the General Permit remains in effect until the permittee submits a Notice of Termination (NOT) certifying that the site has achieved final stabilization or the permittee fails to submit a complete NOI form by July 1, 2007. The NOT form must be signed by the owner or operator or other authorized person in accordance with Part V of this General Permit. The permittee is responsible for payment of annual fees for each calendar year in which the source is covered under the General Permit.

F. Modification to NOIs

After a NOI package is received by the Department and coverage under the General Permit is in effect, a permittee may not modify the NOI or SWPPP to add additional construction-related disturbance area(s) except if the new additional construction-related disturbance is directly contiguous to and directly associated with the original site or facility, except for support activities. In accordance with ARM 17.30.201 the permittee must submit the applicable application fee. Such an amendment is considered a major amendment.

An authorization under the General Permit may be transferred to a new owner or operator in accordance with Part V. of this General Permit after the appropriate transfer has been paid.

G. Notice of Termination

1. Where a site has been finally stabilized the permittee shall submit a standard DEQ Notice of Termination (NOT) form that has been signed in accordance with Part V of this General Permit. The NOT form must include the following information:

   a. The facility or site name and location, mailing address of the construction activity site. Where a mailing address for the site is not available, the location of the site must be described by the latitude and longitude of the site (in degrees, minutes, and seconds);

   b. The name, address, and telephone number of the permittee as identified in the NOI;

   c. The MPDES NOI number (Permit Number) as stated in the NOI Package Receipt Confirmation Letter described in Part I.C.4. of this General Permit;

   d. Certification indicating the site has achieved final stabilization, and

e. The complete NOT form must be signed and certified in accordance with the requirements in Part V of the General Permit. The NOT must be sent to the following address:

Department of Environmental Quality
Water Protection Bureau
P.O. Box 200901
Helena, MT 59620-0901

Failure to submit a Notice of Termination shall result in accrual of annual permit fees until this notice has been received by the Department.

2. Any owner or operator of a facility or site covered under this General Permit may request to be excluded from coverage under this General Permit by applying for an individual permit. If a final individual permit is issued to an owner/operator otherwise subject to this General Permit, coverage under this General Permit is terminated on the effective date of the individual permit.

H. Fees

1. Fees submitted for storm water discharges associated with construction activity are divided into two categories based on the following:

a. A "residential (single family dwelling)" construction activity is the construction of any building, structure, access, utility, or related disturbance utilized for single family occupancy on a distinct and individual lot or parcel of land and that is not combined with or a part of construction activity related to other lots, parcels of land, or single family dwellings. Construction activity must directly include the construction of one single family dwelling (house). Persons constructing more than one single family dwelling (such as a subdivision) are not eligible.

b. A "commercial or public" construction activity is a construction activity that does not meet the above criteria as a "residential (single family dwelling)" construction activity and that includes the development of subdivisions and other projects which are part of a common plan for development or sale.

An indication of which of these two categories a construction activity meets must be provided on the NOI form.

2. Annual fees are based on the calendar year. Permittees are responsible for paying the annual fee for any calendar year, or portion thereof, for which they have an active storm water discharge authorization under this General

Permit. A Notice of Termination under Part I.G. of this General Permit is required to deactivate the accrual of annual fees.

3. The permittee is required to submit payment of an annual fee as set forth in ARM 17.30.201. If the permittee fails to pay the annual fee within 90 days after the due date for the payment, the Department may:

   a. Impose an additional assessment consisting of 15% of the fee plus interest on the required fee computed at the rate established under 75-5-516, MCA, or

   b. Suspend the processing of the application for a permit or authorization or, if the nonpayment involves an annual permit fee, suspend the permit, certificate or authorization for which the fee is required. The Department may lift suspension at any time up to one year after the suspension occurs if the holder has paid all outstanding fees, including all penalties, assessments and interest imposed under this sub-section.

I. Residential (Single Family Dwelling) Authorization

Under ARM 17.30.201 and Part I.H. of the General Permit, a provision exists for General Permit authorization with a reduced flat fee for a "residential (single family dwelling)" storm water discharge associated with construction activity. To qualify for this type of authorization, all construction-related disturbance must achieve "final stabilization" within two years after the date the initial complete NOI package was submitted.

PART II. EFFLUENT LIMITATIONS AND STANDARDS

The following effluent limitations and conditions apply to all facilities or activities subject to this General Permit

A. There must be no discharge of process wastewater pollutants to state surface waters.

B. Any discharge to state surface waters must be composed entirely of storm water. Discharges must consist of water generated only through rainfall precipitation and snowmelt.

C. A discharge of storm water must not cause or contribute to a violation of water quality standards.

D. The permittee shall develop and implement a Storm Water Pollution Prevention Plan (SWPPP) in accordance with the requirement of Part IV of this General Permit.

E. The permittee must implement and maintain all BMPs and storm water management controls in accordance with the requirements of the General Permit.

F. The requirements of this permit remain in effect until the site has reached final stabilization and the owner or operator has submitted a complete Notice of Termination (NOT) form and paid the applicable fee.

PART III. MONITORING AND REPORTING REQUIREMENTS

A. Monitoring Requirements

1. The permittee shall implement and maintain Best Management Practices (BMPs) to minimize potential pollutants in storm water discharges, as identified in the SWPPP.

2. Storm water discharges associated with construction activity must be monitored by the permittee as specified in this section to evaluate the adequacy and effectiveness of the erosion and sediment control measures and BMPs.

3. Erosion and sediment control measures must be inspected and maintained by or under the direction of the permittee at least once every fourteen calendar days and within 24 hours after any rainfall event of 0.5 inches or greater.

4. The frequency of the inspections required in Part III.A.3. may be reduced to monthly, as follows:

   a. After the permittee has completed earthwork and construction activities at the construction site and has installed the SWPPP erosion and sediment control measures and other BMPs necessary to establish final stabilization at a later date, or

   b. Between December 1 and March 1.

   In either case, all sediment and erosion control measures and other BMPs must be in place as identified in the SWPPP. This change in inspection frequency and its schedule for implementation must be indicated in the SWPPP.

5. All inspections and monitoring performed above under Part III.A.3. and 4. of this General Permit must be documented and kept in accordance with Part III.C.2. and 3. of this General Permit.

6. The permittee of a storm water discharge associated with construction activity with construction-related disturbance of 5 acres or more of total land area, which has had active General Permit coverage for 1 year or more, shall perform an annual inspection of the site by the 1 year anniversary date of the submittal of the NOI Package or the initiation of active permit coverage. The annual inspection must:

   a. Identify areas contributing to the storm water discharge associated with construction activity and evaluate whether measures to reduce

pollutant loadings identified in the SWPPP are adequate and properly implemented in accordance with the requirements in this General Permit or whether additional controls are needed.

b. Be summarized in a report that includes a certification of compliance with the SWPPP and General Permit and any incidents of non-compliance. Such report and certification must be signed in accordance with the signatory requirements of Part V of this General Permit. This inspection record, report, and certification must be maintained in accordance with Part III of this General Permit. The annual inspection report is not required to be submitted to the Department.

B. Reporting Requirements

1. Notification of Facility Contact Changes

The permittee shall notify the Department in writing of any change of the designated contact person, mailing address, and/or telephone number (as originally identified in the Notice of Intent) within 15 calendar days of this change.

2. Noncompliance Reporting

If, for any reason, the permittee does not comply with or will be unable to comply with any condition specified in this General Permit, the permittee shall notify the Department within 24 hours of becoming aware of the noncompliance and provide the Department with the following information, in writing, within five calendar days of becoming aware of such condition:

a. A description of the noncompliance and its cause;

b. The period of noncompliance, including exact dates and times; or, if not identified, the anticipated time the noncompliance is expected to continue; and,

c. Additional measures being taken to reduce, eliminate, and prevent recurrences of the non-complying discharge or other cause of noncompliance.

d. Maintain a copy of the noncompliance report.

All reports, notifications, and inquiries regarding the conditions of this General Permit must be provided to the Department at:

Department of Environmental Quality
Water Protection Bureau
P.O. Box 200901
Helena, MT 59620-0901
(406) 444-3080

C. Records Retention

1. Permit Retention Requirements

The permittee shall retain a copy of this General Permit, a copy of the completed and signed NOI form, a copy of the Department's Confirmation Letter for Receipt of the Notice of Intent Package (after it is received by the permittee from the Department), and a copy of the completed and signed Storm Water Pollution Prevention Plan (SWPPP) at the construction activity project site at all times during the active coverage period provided under this General Permit. If no permanent offices/buildings are located at the facility site, copies of these documents must be retained at the office of the permittee's contact person identified on the Notice of Intent form and at the office of the permittee and must be brought to the site at all times with these identified persons. If the person designated as responsible contact/individual is replaced during the active coverage period provided under this General Permit, the permittee shall ensure measures are in place to transfer and familiarize replacement personnel with the requirements pertaining to these documents.

2. Inspection Records

The permittee shall keep a record of inspections and the information required in Part III of the permit, the date and time of inspection, the name of the person performing the inspection, any occurrence of noncompliance with the permit and any corrective measures or actions taken by the permittee. This inspection record must be made available to the Department upon request.

3. Required Period of Record Retention

All records and information resulting from the monitoring activities required by this General Permit, a copy of the completed and signed NOI form, a copy of the DEQ NOI Package Receipt Confirmation Letter, and a copy of the completed and signed SWPPP shall be retained by the permittee for a minimum of 3 years from the date the site is finally stabilized, or longer if requested by the Department.

PART IV. STORM WATER POLLUTION PREVENTION PLAN

A. The permittee shall develop a Storm Water Pollution Prevention Plan (SWPPP). The permittee shall implement the SWPPP at the time construction activity commences. The objective of the SWPPP is to minimize the erosion of disturbed land during construction and post-construction activities and to minimize pollutants, such as from sediment, fuels, oil, grease, fertilizer, pesticides, concrete truck washout, etc., from discharging to state surface waters. It is the responsibility of the permittee to ensure the SWPPP requirements stated in this General Permit are complied with. Incomplete SWPPPs are a violation of this General Permit. The Department may take (or initiate) enforcement action if a permittee is found to have prepared an incomplete SWPPP.

The SWPPP must:

1. Be signed and certified in accordance with the signatory requirements in Part V of this General Permit;

2. Be maintained at the construction site in accordance with Part III.C. of this General Permit; and

3. Provide for compliance with the terms and schedule of the SWPPP and be updated as necessary.

B. The SWPPP must be implemented for the entire duration of the project, beginning with disturbance related to construction activity and lasting through establishment of site final stabilization of disturbed areas.

C. The Department may notify the permittee that the SWPPP is not in compliance with this General Permit. This determination of SWPPP deficiency may be derived through site inspection or through a review of the SWPPP. After such notification from the Department, the permittee shall make changes to the SWPPP and submit a written certification to the Department indicating the necessary changes have been made. Unless otherwise provided by the Department, the permittee shall have 7 calendar days after such notification to make the necessary changes to the SWPPP. When the Department makes such notification, the permittee shall provide the Department with a copy of revisions to the SWPPP.

D. The permittee shall maintain and keep the SWPPP updated to reflect current conditions. The SWPPP shall also incorporate improvements if the SWPPP proves to be ineffective in achieving the general objectives of minimizing pollutants in the discharge of storm water from the site.

E. The SWPPP may include any erosion and sediment control measures or Best Management Practices (BMPs), including but not limited to the use of sediment

basins, berms, barriers, filter strips, covers, diversion structures, seeding, and sodding.

F. Any SWPPP that is prepared for a construction activity must be developed and implemented using standard engineering practices.

G. The SWPPP must include at least the following items:

1. Site Description: Each plan must at a minimum, provide a description of the following:

   a. The nature of the construction activity, including a proposed implementation schedule for major activities;

   b. Estimates of the total area of the site, and all other sites if a phased development project, and the area of the site that is expected to undergo disturbance related to construction activity;

   c. Site map(s) indicating:
      - Areas of total development and, at a minimum, areas of "disturbance" related to construction activity (including support activities related to a construction site, concrete or asphalt batch plants, equipment staging yards, material storage areas, material borrow areas, etc.);
      - Drainage patterns;
      - Approximate slopes anticipated after major grading activities;
      - Areas used for the storage of soils or wastes;
      - Areas used for the storage of fuel(s);
      - Location of all erosion and sediment control measures or structures;
      - Areas where vegetative measures are to be implemented;
      - The location of impervious structures (including buildings, roads, parking lots, outdoor storage areas, etc.) after construction is completed;
      - The location of all state surface waters on or near to the construction activity site (including perennial and intermittent waterbodies, ephemeral streams, springs, wetlands with standing water, etc.),
      - The boundary of the 100-year floodplain, if determined; and
      - A north arrow and map scale;

d. The character and erodibility of soil(s) and other earth material to be disturbed at the project site, including cut/fill material to be used;

e. For a storm water discharge associated with construction activity with construction-related disturbance of 5 acres or more of total land area, an estimate of the runoff coefficient of the site and the increase in impervious area after the construction addressed in the NOI is completed;

f. The names of receiving state surface waters and a description of the size, type, and location of each point source discharge or outfall. If there is no distinguishable point source discharge or outfall to the receiving state surface waters, a description of storm water runoff flow and drainage patterns into the receiving state surface waters must be provided. If the discharge is to a municipal separate storm sewer, the location of any storm sewer discharge into receiving state surface waters; and

g. A description of storm water discharges from support activities related to a construction site (e.g. concrete or asphalt batch plants, equipment staging yards, material storage areas, fill areas, access roads constructed, etc.).

2. BMPs and Storm Water Management Controls

The permittee covered by this General Permit shall develop, as part of the SWPPP, a description of BMPs and storm water management controls appropriate for the site, including a brief description of applicable local erosion and sediment control requirements. The following minimum components must be addressed, including a schedule for implementation, unless otherwise authorized in writing by the Department.

a. A description of stabilization measures which must, to the degree practicable, preserve existing vegetation and re-vegetate areas of construction-related disturbance as soon as possible after grading or construction. In developing vegetative measures, the permittee shall consider: temporary seeding, permanent seeding, mulching, sod stabilization, vegetative buffer/filter strips, grassed waterways, erosion control blankets, and tree and shrub planting.

b. A description of structural measures which indicates how, to the degree practicable, the permittee will divert storm water flows from exposed soil, store these flows, or otherwise limit runoff from exposed areas of the site. In developing structural measures, the permittee shall consider: straw bale dikes, sediment control (silt)

fences, earth dikes, brush barriers, drainage swales, check dams, subsurface drains, pipe slope drains, rock outlet protection, drain inlet and outlet protection, temporary drain diversions, sediment traps, temporary sediment basins, infiltration trenches or basins, and retaining walls. The permittee should also consider the proximity of structural measures with respect to floodplains, and if there are other alternatives, avoid the placement of structural BMPs within the floodplain.

c. None of the temporary control structures, including sediment control (silt) fences and straw bale dikes, shall be removed until permanent vegetation and site stabilization has taken place. The only exception to this would be where temporary control structures need to be moved or removed in order to allow continuing construction activities to occur, in which case equivalent measures must be implemented to ensure the same level of protection in minimizing potential pollutant discharges.

d. Off-site vehicle tracking of sediments from the construction site must be controlled or minimized, particularly onto paved road surfaces, in order to minimize the potential impairment of storm water quality.

e. When trucking saturated soils from the site, either tight leak-proof trucks must be used or loads must be required to drain until drippage has been reduced to less than 1 gallon per hour before leaving the site.

f. Good housekeeping measures to help minimize other non-sediment pollutant contact with storm water runoff. Common potential problem areas to address would be waste management areas, storage areas, loading/unloading areas, and drums/tanks/containers. Measures could include a routine schedule for the managing/removal of waste materials, as well as routine inspections of these potential problem areas.

H. BMPs must minimize or prevent "significant sediment" (as defined in Part VI of this General Permit) from leaving the construction site.

I. If "significant sediment" (as defined in Part VI of this General Permit) results from the failure of erosion or sediment control measures, the permittee shall evaluate the effectiveness of such measures or other BMPs and incorporate improvements to minimize the potential for "significant sediment".

J. If "significant sediment" (as defined in Part VI of this General Permit) results from the failure of erosion or sediment control measures, the material should be

cleaned up and placed back on site, disposed of in an acceptable manner which minimizes any impact to state surface water. The sediment must not be washed into the storm sewer(s), drainageway(s), or receiving state surface waters. The permittee must document the clean-up action in accordance with the inspection and monitoring requirements of Part III.C of this permit. This requirement does not waive any obligations for the permittee to obtain other permits or permissions to clean up the "significant sediment."

K. A description of measures to control pollutants in storm water discharges that will occur after construction operations have been completed must be addressed in the SWPPP, including a brief description of applicable local erosion and sediment control requirements. Such measures may include: storm water detention structures (including wet ponds), storm water retention structures, flow attenuation by use of open vegetated swales and natural depressions, and infiltration of runoff on-site.

PART V. STANDARD CONDITIONS

The following standard permit conditions apply to all facilities authorized to discharge under this Permit.

A. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application (NOI). The permittee shall give the Department advance notice of any planned changes at the permitted facility or of an activity, which may result in permit noncompliance.

B. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall first apply for and obtain a new permit. The application (NOI) form and fee must be submitted at least 30 days before the expiration date of this permit. The Department reserves the authority to administratively extend permit coverage in the event the General Permit is no longer effective, if the permittee has reapplied for permit coverage.

C. Need to Halt or Reduce Activity not a Defense

It may not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

D. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

E. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures.

F. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or

termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

G. Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

H. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

I. Inspection and Entry

The permittee shall allow the Department, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and,

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location.

J. Signatory and Certification Requirements

All applications (NOIs), reports, or information submitted to the Department must be signed and certified.

1. All permit applications (NOIs) shall be signed as follows:

    a. For a corporation, by a responsible corporate officer. A responsible corporate officer means:

        i. a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who

performs similar policy- or decision-making functions for the corporation; or

ii. the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

b. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or

c. For a municipality, state, federal, or other public agency, by either a principal executive officer or ranking elected official. A principal executive officer of a federal agency includes:

i. the chief executive officer of the agency; or

ii. a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. All reports required by permits, other information requested by the Department, must be signed by a person described in Part V.J.1. or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. the authorization is made in writing by a person described in Part V.J.1.;

b. the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company (a duly authorized representative may thus be either a named individual or any individual occupying a named position); and,

c. the written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part V.J.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part V.J.2. must be submitted to the Department prior to or together with any reports, information, or applications (NOIs) to be signed by an authorized representative.

4. Certification. Any person signing a document under this Part shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

K. Planned Changes

The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when the alteration or addition could significantly change the nature or increase the quantity of pollutant discharged. This notification applies to pollutants which are not subject to effluent limitations in the permit.

L. Anticipated Noncompliance

The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

M. Permit Transfers

Permit coverage is not transferable to any person except after notice is given to the Department and a transfer fee is paid. Notice of transfer must be completed on the form provided by the Department and must be received by the Department at least 15 days prior to the anticipated date of transfer. The form must be signed by both the existing owner/operator and the new owner/operator following the signatory requirements of Part V of this General Permit. If the new permittee develops a new SWPPP, the new permittee shall implement the old SWPPP until the new SWPPP is developed and implemented (ARM 17.30.1117).

N. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit must be submitted no later than 14 days following each schedule date.

O. Twenty-Four Hour Reporting

1. The permittee shall report any noncompliance which may endanger health or the environment. Any information must be provided orally within 24 hours from the time the permittee becomes aware of the circumstances.

2. A written submission must also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission must contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

3. The following must be included as information which must be reported within 24 hours:

   a. any unanticipated bypass which exceeds any effluent limitation in the permit;

   b. any upset which exceeds any effluent limitation in the permit; and

   c. violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit to be reported within 24 hours.

4. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours by the Water Protection Bureau.

5. Reports shall be submitted to the address in Part III.B.1.c. of this General Permit.

P. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Part IV or Parts V.K., V.N., or V.O. at the time monitoring reports are submitted. The reports must contain the information listed Part V.O. above.

Q. Other Information

When the permittee becomes aware that it failed to submit any relevant facts in a permit application (NOI), or submitted incorrect information in a permit application (NOI) or in any report to the Department, it shall promptly submit such facts or information.

R. Bypass of Treatment Facilities

1. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2. and 3. below.

2. Notice:

a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass.

b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required under Part V.O. (Twenty-Four Hour Reporting).

3. Prohibition of bypass.

a. Bypass is prohibited and the Department may take enforcement action against a permittee for a bypass, unless:

i. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

ii. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,

iii. The permittee submitted notices as required under Part V.R.2. above.

4. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in Part V.R.3.i.

S. Upset

1. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Part V.S.2. below are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

a. an upset occurred and that the permittee can identify the cause(s) of the upset;

b. the permitted facility was at the time being properly operated;

c. the permittee submitted notice of the upset as required in Part V.S.3.b. (24-hour notice); and

d. the permittee complied with any remedial measures required under Part V.D.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

T. Penalties for Violations of Permit Conditions

The Montana Water Quality Act provides that any person who violates a permit condition of the Act is subject to a civil penalty not to exceed $25,000 per day or one year in prison, or both, for the first conviction, and $50,000 per day of violation or by imprisonment for not more than two years, or both, for subsequent convictions. Except as provided in permit conditions on Part V.R. (Bypass of Treatment Facilities), nothing in this permit shall be construed to relieve the permittee of the civil or criminal penalties for noncompliance.

U. Penalties for Falsification of Reports

The Montana Water Quality Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than $25,000 per violation, or by imprisonment for not more than six months per violation, or both.

V. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act.

W. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

X. Reopener Provision

This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations (and compliance schedule, if necessary), or other appropriate requirements if one or more of the following events occurs:

1. Water Quality Standards

   The water quality standards of the receiving water(s) to which the permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit.

2. Wasteload Allocation

   A wasteload allocation is developed and approved by the Department and/or EPA for incorporation in this permit.

3. Water Quality Management Plan

   A revision to the current water quality management plan is approved and adopted which calls for different effluent limitations than contained in this permit.

Part VI. DEFINITIONS

1. The "Act" means the Federal Clean Water Act.

2. "Best Management Practices" ("BMPs") means schedule of activities, prohibition of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of state surface waters. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

3. The "Department" means the Montana Department of Environmental Quality.

4. "Discharge" means the injection, deposit, dumping, spilling, leaking, placing, or failing to remove any pollutant so that it or any constituent thereof may enter into state waters.

5. "Disturbance" related to construction activity means areas that are subject to clearing, excavating, grading, stockpiling earth materials, and placement/removal of earth material performed during construction projects.

6. "Ephemeral stream" means a stream or part of a stream that flows only in direct response to precipitation in the immediate watershed or in response to the melting of a cover of snow and ice and whose channel bottom is always above the local water table.

7. "Facility or activity" means any MPDES point source or any other facility or activity (including land or appurtenances thereto) that is subject to regulation under the MPDES program.

8. "Final stabilization" means the time at which all soil-disturbing activities at the site have been completed, and a vegetative cover has been established with a density of at least 70% of the pre-disturbance levels, or equivalent permanent, physical erosion reduction methods have been employed. Final stabilization using vegetation must be accomplished using seeding mixtures or forbs, grasses, and shrubs that are adapted to the conditions of the site. Establishment of a vegetative cover capable of providing erosion control equivalent to pre-existing conditions at the site will be considered final stabilization.

9. "Larger common plan of development or sale" means a contiguous area where multiple separate and distinct construction activities are planned to occur at different times on different schedules under one plan. These separate and distinct construction activities which form a larger common

plan of development or sale may have areas of disturbance which are not physically connected.

10. "Owner/Operator" means a person who owns, leases, operates, controls or supervises a point source

11. "Point source" means any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft, from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

12. "Receiving state surface waters" is the river, stream, lake, etc., which receives the discharge from the site.

13. "Regional administrator" means the administrator of Region VIII of the Environmental Protection Agency, which has jurisdiction over federal water pollution control activities in the state of Montana.

14. "Runoff coefficient" means the fraction of total rainfall that will appear at the conveyance as runoff.

15. "Significant sediment" means sediment, solids, or other wastes discharged from construction site, or a facility or activity regulated under the General Permit which exceeds 1.0 cubic foot in volume in any area of 100 square feet that may enter state surface water or a drainage that leads directly to state surface water.

16. "Site" means the land or water area where any facility or activity is physically located or conducted, including adjacent land used in connection with the facility or activity.

17. "State waters" is defined at 75-5-103, MCA.

18. "Storm water" means storm water runoff, snow melt runoff, and surface runoff and drainage.

19. "Storm water discharge associated with construction activity" means a discharge of storm water from construction activities including clearing, grading, and excavation that result in the disturbance of equal to or greater than one acre of total land area. For purposes of these rules, construction activities include clearing, grading, excavation, stockpiling earth materials, and other placement or removal of earth material performed during construction projects. Construction activity includes the disturbance of less than one acre of total land area that is a part of a larger

common plan of development or sale if the larger common plan will ultimately disturb one acre or more.
(a) Regardless of the acreage of disturbance resulting from a construction activity, this definition includes any other discharges from construction activity designated by the department pursuant to ARM 17.30.1105(1)(f).
(b) For construction activities that result in disturbance of less than five acres of total land area, the acreage of disturbance does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the facility.
(c) For construction activities that result in disturbance of five acres or more of total land area, this definition includes those requirements and clarifications stated in ARM 17.30.1102(29)(a), (b), (d) and (e).

20. "SWPPP" or "Storm Water Pollution Prevention Plan" means a document developed to help identify sources of pollution potentially affecting the quality of storm water discharges associated with a facility or activity, and to ensure implementation of measures to minimize and control pollutants in storm water discharges associated with a facility or activity. The Department determines specific requirements and information to be included in a SWPPP based on the type and characteristics of a facility or activity, and on the respective MPDES permit requirements.

21. "Surface waters" means any waters on the earth's surface including, but not limited to, streams, lakes, ponds, and reservoirs, and irrigation and drainage systems discharging directly into a stream, lake, pond, reservoir or other surface water. Water bodies used solely for treating, transporting, or impounding pollutants shall not be considered surface water.

STORM WATER POLLUTION PREVENTION PLAN

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Agency Use
Permit No.:
Date Rec'd Amount Rec'd Check No. Rec'd By

Montana Department of ENVIRONMENTAL QUALITY

WATER PROTECTION BUREAU

FORM **SWPPP**

Storm Water Pollution Prevention Plan (SWPPP) Form
Storm Water Discharge Associated With Construction Activity
MTR100000

READ THIS BEFORE COMPLETING FORM: Before completing this form all parties need to read the General Permit, particularly Part IV on SWPPPs. This SWPPP Form is intended to assist operators in developing a SWPPP which complies with Part IV of the General Permit. The term "Storm Water Pollution Prevention Plan" is defined in the Administrative Rules of Montana 17.30.1002(31). The SWPPP is a document which is developed to direct and assist permittees in identifying sources of potential pollutants at the construction activity site, and Best Management Practices (BMPs) to be used to help ensure such pollutants do not impact receiving surface waters through storm water runoff. It is the permittee's responsibility to ensure all required items in the General Permit are adequately addressed, and that the SWPPP is developed, implemented, and maintained. Additional narrative information may need to supplement this SWPPP Form in order to meet these requirements. A copy of the SWPPP must be maintained at the construction activity site as required in Part III.C. of the General Permit. Sections B, C, and D on this SWPPP Form must state information exactly the same as that indicated on the NOI Form. Attach additional pages as necessary with the item number on this form indicated. For coverage under the General Permit to be valid upon the submittal of a NOI package, the NOI package must include a complete NOI Form, SWPPP, and fee. Do not submit these items separately. The 2007 General Permit, 2002 Fee Schedule, and related forms are available from the Storm Water Program at (406) 444-3080 or http://www.deq.state.mt.us/wqinfo/MPDES/StormwaterConstruction.asp.

Section A - SWPPP Status *(Check one):*

☑ New — No prior SWPPP submitted for this site.

☐ Modification — Permit Number: MTR10 _ _ _ _ (Please specify these four numbers)

Section B - Facility or Site Information:

Site Name St. Mary Visitor Center
Site Location Project is located at the East entrance to Glacier National Park.
Nearest City or Town St. Mary, MT County Glacier

Section C - Applicant (Owner/Operator) Information:

Owner or Operator Name Western Federal Lands Highway Division, FHWA
Mailing Address 610 East Fifth St.
City, State, and Zip Code Vancouver, WA 98661
Phone Number (360) 619-7700

Section D - General SWPPP Requirements:

1. Brief Description of Purpose and Nature of Construction Activity:

The project consists of modifying the existing parking lot, adding additional parking, and improving vehicle access and circulation at the St. Mary Visitor Center.

2. Proposed Implementation Schedule for Major Activities. In addition to major activities, include the estimated dates for the start and completion of the construction project, as well as the estimated date final stabilization will be completed. :

1. clearing and grubbing
2. grading
3. drainage
4. surfacing
5. signing and striping

Erosion control measures will be incorporated into the project as needed during construction.

Project start date: 04-01-2008
Completion date: 6-13-2008
Estimated final stabilization date: 9-30-2010

3. Estimate of Total Area of the site (and all other sites if a phased development project):

Estimated total area of the project is 4 acres.

4. Estimate of Total Area of the Site Expected to Undergo Disturbance Related to Construction Activity:

Estimated total disturbance is 4 acres.

5. Check to confirm a site map has been developed and included with this SWPPP which indicates all required information stated in Part IV.G.1.c. of the General Permit: ☑Yes

6. Are sand & gravel excavation, other borrow areas, and/or crushing operations associated with project?
☑ Yes ☐ No (Borrow material will be obtained from a commercial source outside the NPS boundary. The Contractor will locate this commercial source.)
Are temporary asphalt batch plant operations associated with this project?
☑ Yes ☐ No (The Contractor may decide to use a temporary batch plant on the east side of the project, but it would be outside the NPS boundary. The Contractor would have to locate a staging area or commercial source to set up their batch plant.)

If yes, be sure to include the requested information about these areas on the site map, or a similar separate map, as stated in Part IV.G.1.c. of the General Permit.

7. Describe the character and erodibility of soil and other earth material to be disturbed at the project site, including cut/fill material to be used:

The existing subsurface soils are generally granular glacial deposits of silty to clayey gravel and are not highly erodable due to the character of the existing material, topography, and high permeability rate of the soil. The two existing parking lots will be subexcavated and repaved. The south parking lot will be expanded into a vegetated field with gentle topography. Waste material will be hauled outside the Park and any material imported into the Park will be suitable for embankment construction.

8. Estimate of Runoff Coefficient and Increase In Impervious Area (refer to Part IV.G.1.e. of the General Permit - only applies if total construction-related disturbance is 5 acres or more):

Not Applicable.

9. Indicate Names of Receiving Waters and Describe the Size, Type, and Location of each Point Source Discharge or Outfall (refer to Part IV.G.1.f. of General Permit):

The outfall location is not well defined and there are no well defined drainages extending from the construction area. The project area is relatively flat consisting of general ephemeral drainage that makes its way to Saint Mary River approximately 0.15 mile to the northwest.

10. Describe Storm Water Discharges From Support Activities (refer to Part IV.G.1.g. of General Permit):

To minimize the possibilities of potential spills, hazardous material containment procedures approved by the Project Engineer will be placed prior to the beginning of the operation. The Contractor will be required to develop a Spill Prevention, Containment, and Countermeasure (SPCC) Plan or Hazardous Spill Plan to prevent pollution related to Contractor operations and to satisfy all pertinent requirements of Federal, state, and local laws and regulations. This plan will specify that no toxicant (including petroleum products) will be stored within 30 meters (100 feet) of the top of bank of any stream. Areas for fuel storage, and for refueling and servicing of construction equipment and vehicles, will be located at least 30 meters (100 feet) from water bodies.

There will be no work in live water. The concrete gutter is to address storm water that sometimes ponds up behind the northwest access road to the St. Mary Visitor Center during rain events, and the drainage ditch and culvert is to provide drainage for storm water runoff to pass under the Going to the Sun Road (GTSR) at the southeast side of the St. Mary Visitor Center (See attached plans). These areas are dry most of the year and water will not require diversion. BMPs will be utilized to help contain sediment until construction of the concrete gutter, drainage ditch, and culvert is complete and vegetation is reestablished.

The construction site will be inspected at least once every 7 calendar days, or within 24 hours of any storm event during which more than 12mm of rain falls. If the area has been temporarily stabilized, inspections must be conducted at least once a month. Implementation of corrective measures and changes to the plans will occur within 72 hours of inspection.

Section E - SWPPP BEST MANAGEMENT PRACTICES (BMPs) AND STORM WATER MANAGEMENT CONTROLS

1. Describe Applicable Local Erosion and Sediment Control Requirements:

2. Describe in detail, temporary BMPs and storm water management controls which will be used for erosion and/or sediment control during construction-related earthwork activities. Indicate the location of these measures on the site map required above, or a similar separate map, as much as practicable. Include a schedule for implementation for each of these measures. Attached details and specifications may be used to supplement this description. Refer to Parts IV.G.2.a, b, c. of the General Permit. Examples of temporary measures could include but are not limited to: slope roughening; vegetative buffer strips; sediment control (silt) fences; straw bale dikes; erosion control blankets/mats; temporary drain diversions; minimizing clearing; temporary sediment basins/traps; mulching; temporary seeding; brush barriers; up-slope runoff diversions/controls; inlet/outlet protection; disturbance area runoff diversions/controls; waterway protection; and, ditch runoff flow dispersers (e.g. level spreaders)/flow inhibitors.

TEMPORARY STABILIZATION PRACTICES (see plan sheets E.1-E.5):

- Straw wattles
- Application of native seed (by Glacier National Park as consistent with the *Park Revegetation Plan*)
- Entrances to the construction site will be graveled to control vehicle traction
- Application of weed-free mulch as needed (by Glacier National Park as consistent with the *Park Revegetation Plan*)
- Application of tackifier as needed for stabilization of soil, seed, and mulch (by Glacier National Park as consistent with the *Park Revegetation Plan*)

The straw wattles will be installed prior to clearing, grubbing, or earthwork.

3. Describe in detail, permanent and structural BMPs and storm water management controls which will be used for erosion and/or sediment control during and after construction-related earthwork activities. These would include measures to achieve final stabilization (as defined in Part VI.8. of the General Permit). Indicate the location of these measures on the site map required above, or a similar separate map, as much as practicable. Attached details and specifications may be used to supplement this description. Refer to Parts G.2.a., b. of the General Permit. Examples of permanent measures could include but are not limited to: permanent seeding; check dams; retaining walls; drain inlet protection; rock outlet protection; drainage swales; sediment basin & traps; earth dikes; manmade erosion control structures; grassed waterways; sod stabilization; infiltration trenches or basins; subsurface drains; level spreader; terraced slopes; tree or shrub planting; pipe slope drains; vegetative buffer strips; detention ponds; and, containment ponds.

PERMANENT STABILIZATION PRACTICES (see plan sheets E.1-E.5):

- Placement of topsoil (see plan sheet D.17)
- Application of native seed (by Glacier National Park as consistent with the *Park Revegetation Plan*)
- Application of weed-free mulch as needed (by Glacier National Park as consistent with the *Park Revegetation Plan*)
- Application of tackifier as needed for stabilization of soil, seed, and mulch (by Glacier National Park as consistent with the *Park Revegetation Plan*)
- A riprap energy dissipater will be placed at the outlet side of the concrete gutter to minimize erosion.
- Construction of drainage ditch along eastern edge of the expanded east parking lot and construction of a concrete round culvert beneath the Going to the Sun Road (GTSR) near the southeast access road. This ditch and culvert will catch storm water and transport it to the west side of the GTSR where it will enter the existing drainage system. The ditch will be revegetated with native seed and riprap energy dissipaters will be placed at the inlet and outlet of the culvert (see plan sheets D.12 and E.3).
- The parking lots and access roads will be paved with a porous pavement to allow infiltration of storm water and minimize runoff (see plan sheet D.16).

4. Describe what products or wastes may be stored or utilized at the construction activity site, indicate on the site map as required above, and indicate what BMPs will be used to minimize potential pollutants from these materials coming into contact with storm water runoff. Examples of products or wastes could include but is not limited to: fuels; tar or asphalt; cement or mortar; concrete truck wastewater; solvents; detergents; steel; roofing materials; fertilizers; paints; pesticides; other petroleum-based materials; other hazardous materials (including wastes);and, solid wastes.

Petroleum-based products (diesel, gasoline, asphalt cement and emulsified asphalt)
Pavement millings
Concrete
Signs
Aggregate
Paints
Fuel
Traffic control devices (cones, etc.)
Culvert

Petroleum: Stationary diesel and gasoline tanks will have containment berms lined with an impervious membrane.
Hazardous Materials: Labeled and stored in proper containers at least 30 meters (100 feet) from surface water streams.
SPPC Plan: Required prior to starting construction, stating what actions will be taken in case of a spill. This plan will also incorporate preventative measures to be implemented.

5. Describe any other good-housekeeping measures to be used to help minimize non-sediment pollutant contact with storm water runoff.

A Hazardous Spill Plan will be required prior to starting construction, stating what actions will be taken in case of a spill. This plan will also incorporate preventive measures to be implemented. Refueling and servicing equipment will not occur within 30 meters of a water body.

6. Describe any measures that will be used to prevent vehicle tracking of sediment from the construction site onto roads (examples include a graveled access entrance and exit drives and parking areas, and a tire wash pad at exit drive):

The entrances to the site will be graveled to control vehicle traction of mud (see plan sheet E.2).

7. When trucking saturated soils from the site, either tight leak-proof trucks must be used or loads must be required to drain until drippage has been reduced to less than 1 gallon per hour before leaving the site. Will saturated soils be trucked from the site? ☐Yes ☑No

8. Describe man-made and natural measures to control pollutants in storm water discharges after construction operations have been completed. Refer to Part IV.K. of the General Permit. Examples include: vegetative waterways and natural landscape; infiltration trenches or basins; storm water detention structures; wet ponds or man-made wetlands; and, storm water containment structures.

Energy dissipaters
Vegetation control
Soil Stabilization measures
Turf establishment
Porous pavement that will allow infiltration of storm water and minimize runoff

9. BMPs must minimize or prevent "significant sediment" (as defined in Part V.T.13. of this General Permit) from leaving the construction site. If "significant sediment" (as defined in Part VI of this General Permit) results from the failure of erosion or sediment control measures, the material should be cleaned up and placed back on site, disposed of in an acceptable manner which minimizes any impact to state surface water. The sediment must not be washed into the storm sewer(s), drainageway(s), or receiving state surface waters. The permittee must document the clean-up action in accordance with the inspection and monitoring requirements of Part III.C of this permit. This requirement does not waive any obligations for the permittee to obtain other permits or permissions to clean up the "significant sediment."

Section F - Inspection and Maintenance

Describe inspection procedures and BMP maintenance procedures to ensure compliance with Part III.A. of the General Permit. As a part of this, describe measures to identify and address non-storm water discharges should they occur.

Inspections: Drainage structures, straw wattles, and locations where vehicles enter or exit the site will be inspected at least once every 7 calendar days, or within 24 hours of any storm event during which more than 12 mm of rain falls. If the area has been temporarily stabilized, inspections must be conducted at least once a month.

Inspections will be conducted jointly, and reports of the findings will be kept by the FHWA and the Contractor. Inspection reports will include a summary of the findings during the inspection, names and qualifications of personnel making the inspection, the date of the inspection, observations made and a list of corrective actions necessary. These reports will be signed by both the inspector and the Contractor's representative. Implementation of corrective measures and changes to the plans will occur within 72 hours of the inspection.

Temporary erosion and sediment control devices will be removed once final stabilization is complete.

Section G - CERTIFICATION

Permittee Information:

This SWPPP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

Alternatively, this SWPPP may be signed by a duly authorized representative of the person above. A person is a duly authorized representative only if:

- The authorization is made in writing by a person described above;
- The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company (a duly authorized representative may thus be either a named individual or any individual occupying a named position);
- The written authorization is submitted to the department.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print)	
Terri L. Thomas	
B. Title (Type or Print) Environmental Manager	C. Phone No. 360-619-7967
D. Signature Terri L. Thomas	E. Date Signed 11-15-07

FIRE PREVENTION AND SUPPRESSION PLAN

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FIRE PROTECTION AND SUPPRESSION

The following requirements pertain to normal level non-heightened fire restriction periods. More restrictive requirements will be required in the event of more active fire seasons.

1. Fire Control

The Contractor shall, independently and in cooperation with the National Park Service, take all reasonable action to prevent and suppress fires in the project area. Independent initial action shall be prompt and shall include the use of all personnel and equipment available in the project area.

2. Fire Precautions

Specific fire precautionary measures are as follows:

a. Smoking and Open Fires

Smoking shall be permitted only at the option of the Contractor. The Contractor shall not allow open fires on the project area, open fires are not allowed within Glacier National Park.

Unless restricted by State Law or Federal Regulation, smoking shall be permitted only in such portions of the project area that are free of flammable material. Smokers are required to discard extinguished cigars and cigarette butts in an appropriate non-flammable container. Under no circumstances shall butts be discarded on the road or roadside.

b. Fire Extinguishers and Equipment, on Trucks, Tractors, etc.

All power-driven equipment operated by the Contractor on National Park land, except portable fire pumps, shall be equipped with one fire extinguisher having a UL rating of at least 5 B, C, and one "D" handled or long handled round pointed shovel, size "O" or larger. In addition, each motor patrol, truck and passenger-carrying vehicle shall be equipped with a double-bit axe or Pulaski, 3½ pounds or larger.

Equipment shall be kept in serviceable condition and shall be readily available.

c. Power Saws

Each gasoline power saw operator shall be equipped with a pressurized chemical fire extinguisher of not less than 8-ounce capacity by weight, and one long handled round point shovel, size "O" or larger. The extinguisher shall be kept in possession of the saw operator at all times. The shovel shall be accessible to the operator within 1 minute.

d. Grinding, Oxyacetylene cutting and welding

One 5 gallon bladder bag is required at each job site location where these activities are being conducted.

e. Extinguishers

One refill for each type or one extra extinguisher sufficient to replace each size extinguisher required on equipment shall be safely stored in the fire tool box or other agreed upon place on the project area that is protected and readily available.

f. Spark Arresters and Mufflers

Each internal combustion engine shall be equipped with a spark arrester meeting appropriate Society of Automotive Engineers (SAE) recommend Practice J335(b) and J350(a) as now or hereafter amended unless it is:

(1) Equipped with a turbine-driven exhaust supercharger such as the turbo charger. There shall be no exhaust bypass.

(2) A passenger carrying vehicle or light truck, or medium truck up to 40,000 GW, used on roads and equipped with a factory designed muffler complete with baffles and with an exhaust system in good working condition.

(3) A heavy duty truck, such as a dump or log truck, or other vehicle used for commercial hauling, used only on roads and equipped with a factory designed muffler and with a vertical stack exhaust system extending above the cab.

Exhaust equipment described in this Subsection, including spark arresters and mufflers, shall be properly installed and constantly maintained in serviceable condition.

g. Tank Truck

The Contractor shall provide a tank truck or trailer, containing not less than 300 gallons of water, during yarding, loading, land clearing, right of way clearing and mechanical treatment of slash. A tank truck or trailer will not be required if power saw failing and bucking is the only operation. Such tank truck or trailer shall be maintained in a serviceable condition and located within 10 minutes, round trip, from each project area during dire period and closed season.

The tank truck or trailer shall be equipped with a pump capable of discharging 20 gallons of water per minute, using a ¼-inch nozzle tip, through a 50 foot length of rubber lined hose. In addition, 500 feet of serviceable fabric jacket rubber lined hose of not less than 1 inch outside diameter, fitted with a nozzle capable of discharging a straight stream of ¼-inch diameter and a spray pattern, shall be immediately available for use. The tank, pump and at least 250 feet of hose and nozzle shall be connected and ready for use at all times.

If a trailer is used, it shall be equipped with a hitch to facilitate prompt movement. A serviceable tow vehicle shall be immediately available for attachment to the trailer and must meet the time requirements stated above. Such truck or trailer shall be equipped to operate for a minimum of 8 hours. Tank truck or trailer shall be available from the start of work to the end of the Fire Watch/Fire Security service.

h. Communications

The Contractor shall provide adequate 2-way communication facilities to report a fire to the National Park Service within 15 minutes of detection. Report fires to the Communications Center at West Glacier Headquarters Office at 406-888-7801. FCC Regulations prohibit commercial use of Citizen Band (CB) radios (CBs are not considered adequate 2-way communications).

Communications shall be operable during all periods of contract operation.

3. Fire Tools

The Contractor shall furnish serviceable fire fighting tools at each job site location where activities are being conducted in a readily accessible fire tool box or compartment of sound construction with a hinged lid and hasp so arranged that the box can be secured or sealed. The box shall be red and marked “Fire Tools” in letters at least 1 inch high. It shall contain a minimum of:

(a) 2 axes or Pulaskis with a 32-inch handle;

(b) 3 adze eye hoes. One Pulaski may be substituted for one adze eye hoe;

(c) 3 long handled, round point shovels, size “O” or larger.

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